DC2	Paul C. Rizzo Associates,	Inc.
_	ENGINEERS & CONSULTANTS	

					Status:	\odot	N	U
Seismic Walkdowi	n Checklist ((SWC)						
Equipment ID No.	1E51B000	2 Equip. Class	s 21. Tanks and	Heat Exchangers				
Equipment Descrip	tion	RCIC Lube Oil Coo	ler					-
Location: Bldg.	AX	Floor El.	574					
Manufacturer, Mod	el, Etc.							
Instructions for Co This checklist may SWEL. The space b findings. Additiona	be used to do below each of	ocument the results of the following ques	tions may be used	to record the result	s of judgm		-	
Anchorage							-	
1. Is the anchorage	configuration	varification requir	ad (i.a. is the item	апа Г	Y X	N	1	
	VEL items re pump skid. F	quiring such verific Pump skid anchored	ation)?				I	
					Y	N	U	N/A
2. Is the anchorage	free of bent,	broken, missing or l	oose hardware?		X			
				_	Y	N	U	N/A
3. Is the anchorage a oxidation?	free of corros	sion that is more tha	n mild surface	L	X			
					Y	N	U	N/A
4. Is the anchorage	free of visible	e cracks in the conc	rete near the ancho	ors?	X			
					Y	N	U	N/A
	ion only app rage configur	lies if the item is on ration verification is	e of the 50% for required.)	· [X			
					Y	N	U	
6. Based on the abor potentially adver			anchorage free of		X			

Status: (\mathfrak{V}) Ν U Seismic Walkdown Checklist (SWC) Equipment ID No. 1E51B0002 Equip. Class 21. Tanks and Heat Exchangers **Equipment Description** RCIC Lube Oil Cooler Interaction Effects U N/A Y Ν 7. Are soft targets free from impact by nearby equipment or structures? X Y U N/A Ν 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Х and masonry block walls not likely to collapse onto the equipment? Y U Ν N/A 9. Do attached lines have adequate flexibility to avoid damage? X Attached piping is rigidly supported and attached conduits were found with adequate Y Ν U 10. Based on the above seismic interaction evaluations, is equipment free X of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could Y Ν U adversely affect the safety functions of the equipment? X Comments (Additional pages may be added as necessary)

Atter Mehna 1

Evaluated by:

Eddie M. Guerra

Date: 8/26/2012

8/26/2012

Date:

Salfl

Brian A. Lucarelli

Paul C. Rizzo Associates, Inc.

SGINEERS & CONSULTANTS



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1E51B0002 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

RCIC Lube Oil Cooler



File Name: 2-61-2-4-18.jpeg Description: Geenral view of component



File Name: 2-62-2-4-18.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1E51B0002 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

RCIC Lube Oil Cooler



File Name: 2-63-2-4-18.jpeg Description: View of anchorrage configuration



File Name: 2-64-2-4-18.jpeg Description: View of component concrete base

	Rizzo Asso	ciates, Inc.				Sheet 20	8 of 46
Seismic Walkdown (Checklist (S	SWC)		Status:	\odot	Ν	U
Equipment ID No. 1	1E51F0045	Equip. Class	8A. Motor-Operated Valves				
Equipment Descriptio	n <u>N</u>	Aotor Valve					
Location: Bldg.	AX	Floor El.	574				
Manufacturer, Model,	Etc.						
	used to do	cument the results of	the Seismic Walkdown of an iter ons may be used to record the res				

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Valve mounted on main line at 45deg from horiz. Pipe line is well supported with supports before and after valve.

findings. Additional space is provided at the end of this checklist for documenting other comments.

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Y

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- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

	ul C. Rizzo Associates, Inc. NEERS & CONSULTANTS				Sheet 20	9 of 461
Seismic Walkdo	own Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID N	lo. <u>1E51F004</u> 5 Equip. Class 8A. Motor-Operated V	alves				
Equipment Desc	ription Motor Valve					-
Interaction Effe	ects				-	
7. Are soft target	ts free from impact by nearby equipment or structures?		Y X	N	<u> </u>	N/A
			LL			L
			Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?		X				
	fock wans not likely to conapse onto the equipment?					
			Y	N	U	N/A
	nes have adequate flexibility to avoid damage? is rigidly supported and attached conduits were found with ad	1	X			
Indened piping	is regidly supported and anached conduits were jound with ac	lequale				
10 Based on the	above seiemie interestion autorities in the fi		Γ <u>Υ</u>	N	U	
of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
Other Adverse	Conditions				_	
11. Have you loo	ked for and found no other seismic conditions that could		Y	N	U	
adversely afte	ect the safety functions of the equipment?		X			
Comments (Add	litional pages may be added as necessary)				-	
	Toto Mina 1					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012		
	Enfl				-	
	Brian A. Lucarelli	Date:	8/26/2	012		



Seismic Walkdown Checklist (SWC)

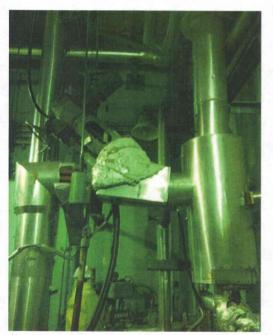
Equipment ID No. <u>1E51F0045</u> Equip. Class 8A. Motor-Operated Valves

Equipment Description

Motor Valve



File Name: 2-61-1-4-18.jpeg Description: Geenral view of component



File Name: 2-62-1-4-18.jpeg Description: General view of component

	C. Rizzo Ass ers & consultants					Sheet 21	1 of 461
Seismic Walkdow	vn Checklist	(SWC)		Status:	\heartsuit	N	U
Equipment ID No.	1E51N005	55A Equip. Class	18. Instrument (on) Racks				
Equipment Descri	ption .	Pressure Sensor	· · · · · · · · · · · · · · · · · · ·				
Location: Bldg.	AX	Floor El.	574				

Instructions for Completing Checklist

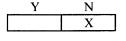
Manufacturer, Model, Etc.

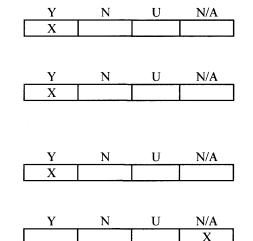
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

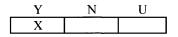
Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one
of the 50% of SWEL items requiring such verification)?
Sensor rack anchored with 16 anchors to 6" thick concrete pad. Nearby rack
inspected and noted it was bolted together with 4 - 1/2" bolts.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?







	C. Rizzo Associates, Inc.				Sheet 21	2 of 461
Seismic Walkdov	vn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	<u>1E51N0055A</u> Equip. Class 18. Instrument (on) Ra	acks				
Equipment Descri	ption Pressure Sensor					
Interaction Effec	ts		T 7	N	_	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
8 Are overhead a	minmont distribution sustance estimation and the later		Y X	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?						
0 De etter heddin			Y	N	U	N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with a	dequate	X			
	bove seismic interaction evaluations, is equipment free		Y X	N	U	
of potentially a	dverse seismic interaction effects?		L.,		•	
Other Adverse C	onditions					
	ed for and found no other seismic conditions that could t the safety functions of the equipment?		Y X	N	U	
Comments (Addit	ional pages may be added as necessary)				_	
	the Mina I					
Evaluated by:	Eddie M. Guerra	Date:	8/26/20	12	-	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/20	12		

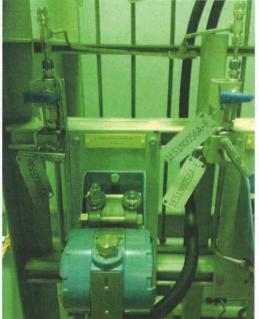


Seismic Walkdown Checklist (SWC)

Equipment ID No. 1E51N0055A Equip. Class 18. Instrument (on) Racks

Equipment Description

Pressure Sensor



File Name: 2-61-6-4-18.jpeg Description: Component Plate ID



File Name: 2-62-6-4-18.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1E51N0055A Equip. Class 18. Instrument (on) Racks

Equipment Description

Pressure Sensor



File Name: 2-63-6-4-18.jpeg Description: General view of component rack



File Name: 2-64-6-4-18.jpeg Description: Anchorage configuration for instrument rack



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1E51N0055A Equip. Class 18. Instrument (on) Racks

Equipment Description

Pressure Sensor



File Name: 2-73-6-4-18.jpeg Description: View of top attached lines

Paul C. Rizzo Ass					Sheet 216	6 of 461
Seismic Walkdown Checklist	(SWC)		Status:	\odot	N	U
Equipment ID No. <u>1G41F014</u>	5 Equip. Class	8 8A. Motor-Operated Valves				
Equipment Description	CNTMT Pools RTN	OTBD Isol				
Location: Bldg. <u>IB</u>	Floor El.	620				
Manufacturer, Model, Etc.						

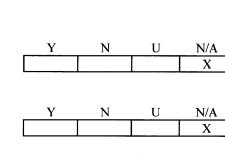
Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

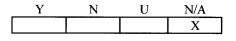
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 Mounted on ~10" diam line well supported around valve.

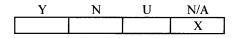
- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

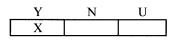


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Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 21	7 of 461
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>1G41F0145</u> Equip. Class 8A. Motor-Operated Valves				
Equipment Description CNTMT Pools RTN OTBD Isol	······································			
Interaction Effects	V	Ŋ		NT/A
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N	U	<u>N/A</u>
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y	N	U	<u>N/A</u>
and masonry block walls not likely to collapse onto the equipment?	L			
9. Do attached lines have adequate flexibility to avoid damage?	Y X	N	U	N/A
Attached piping is rigidly supported and attached conduits were found with adequate 10. Based on the above seismic interaction evaluations, is equipment free	Y X	N	U	
of potentially adverse seismic interaction effects?				
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	Y	N	– U	
adversely affect the safety functions of the equipment?				
Comments (Additional pages may be added as necessary)			_	
tette Mahma IV				
Evaluated by: Eddie M. Guerra Date:	8/26/2	012	_	
Earph				

Brian A. Lucarelli

Date:

8/26/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1G41F0145

Equip. Class 8A. Motor-Operated Valves

Equipment Description

CNTMT Pools RTN OTBD Isol



File Name: 2-61-1-4-16.jpeg Description: Component Plate ID



File Name: 2-62-1-4-16.jpeg Description: General view of Component

Paul C. Rizzo Associates, I ENCINEERS & CONSULTANTS	nc.				Sheet 219	of 461
Seismic Walkdown Checklist (SWC)			Status:	\odot	Ν	U
Equipment ID No. <u>1G43N006</u> 0A E	Equip. Class	18. Instrument (on) Racks				
Equipment Description Level Tra	ansmitter					
Location: Bldg. <u>AX</u> F	floor El.	574				
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

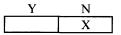
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Small trasnmitter on wall all verified to have their attachment bolts and supporting rack was found in adequate condition.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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N/A

Y

-	1 1	U	1 1/1 1
X			
-			
Y	Ν	U	N/A
X			
Y	Ν	U	N/A
X			
Y	Ν	U	N/A
			X
L			لـــــــــــــــــــــــــا
Y	N	U	
X	- 1		

	1 C. Rizzo Associates, Inc. FERS & CONSULTANTS				Sheet 22	20 of 461
Seismic Walkdo Equipment ID No Equipment Descr		cks	Status:	8	N	U
					_	
Interaction Effe 7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,			Y X	N	U	N/A
	ock walls not likely to collapse onto the equipment?		Y	N	U	N/A
Attached piping i.	nes have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with ad	lequate	X Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
Other Adverse C 11. Have you lool adversely affect	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	- U	
Comments (Addi	tional pages may be added as necessary)				-	
	the White I					
Evaluated by:	Eddie M. Guerra I	Date:	8/26/20	012	_	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/20	012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1G43N0060A Equip. Class 18. Instrument (on) Racks

Equipment Description

Level Transmitter



File Name: 2-61-3-4-18.jpeg Description: General view of component location



File Name: 2-62-3-4-18.jpeg Description: High radiation area signage



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1G43N0060A Equip. Class 18. Instrument (on) Racks

Equipment Description

Level Transmitter



File Name: 2-63-3-4-18.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS					Sheet 223 of 461	
Seismic Walkdown Checklist (S	SWC)		Status:	(Ν	U
Equipment ID No. 1G43N0060)B Equip. Class	18. Instrument (on) Racks				
Equipment Description <u>L</u>	evel Transmitter	-				
Location: Bldg. <u>AX</u>	Floor El.	574				
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

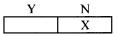
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

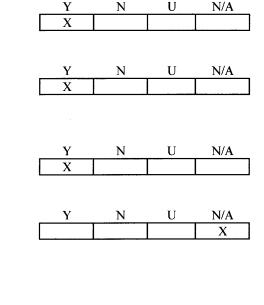
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

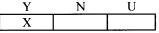
Small trasnmitter on wall all verified to have their attachment bolts and supporting rack was found in adequate condition.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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	Rizzo Associates, Inc. consultants				Sheet 224	4 of 461
Seismic Walkdown (Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	1G43N0060B Equip. Class 18. Instrument (on) Rac	ks				
Equipment Descriptio	n Level Transmitter					
Interaction Effects					••	
7. Are soft targets free	e from impact by nearby equipment or structures?	Γ	Y X	<u>N</u>	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,			Y X	N	U	N/A
and masonry block	walls not likely to collapse onto the equipment?					
	ave adequate flexibility to avoid damage? idly supported and attached conduits were found with ad	leauate	Y X	N	U	N/A
10. Based on the abov	re seismic interaction evaluations, is equipment free	[Y X	N	U	
of potentially adve	rse seismic interaction effects?					
	litions for and found no other seismic conditions that could e safety functions of the equipment?	C	Y X	N	U	
Comments (Addition	al pages may be added as necessary)					
	the Mahra 1					
Evaluated by:	Eddie M. Guerra I	Date:	8/26/2	2012		
(Salfle					

Brian A. Lucarelli

Date:

8/26/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1G43N0060B Equip. Class 18. Instrument (on) Racks

Equipment Description

Level Transmitter



File Name: 2-61-4-4-18.jpeg Description: General view of component location



File Name: 2-62-4-4-18.jpeg Description: High radiation area signage



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1G43N0060B Equip. Class 18. Instrument (on) Racks

Equipment Description

Level Transmitter



File Name: 2-63-4-4-18.jpeg Description: General view of component



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Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1H13</u>	Equip. Class	20. Instrument and Control Panels	
Equipment Description	Termination Cabinet		
Location: Bldg. CC	Floor El.	654	
Manufacturer, Model, Etc.	·		

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

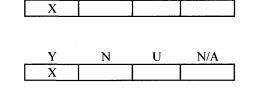
oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one	
of the 50% of SWEL items requiring such verification)?	

4 section panel, each section anchored with 4 - 5/8" diam anchors. Adjacent to another 4-section panel and verified to be bolted together.

2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface



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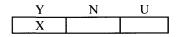
Y

Y

X

Y

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



ENGIN	EERS & CONSULTANTS					
			Status:	(Y)	N	U
Seismic Walkdo	wn Checklist (SWC)					
Equipment ID No	Equip. Class 20. Instrument and Control	ol Panels				
Equipment Descr	iption Termination Cabinet					
Interaction Effe	ets					
7 Are soft targets	free from impact by nearby equipment or structures?	Γ-	$\frac{Y}{X}$	<u>N</u>	U	N/A
7. The solt target.	The nom impact by hearby equipment of structures.	L			1	
			Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting,		X			
and masonry bi	ock walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
	es have adequate flexibility to avoid damage?		X			
Attached piping i	s rigidly supported and attached conduits were found with adeq	quate				
		_	Y	N	<u> </u>	ł
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	L	X		<u> </u>	
Other Adverse (Conditions				-	
	ked for and found no other seismic conditions that could	r	Y	N	<u> </u>	I
adversely affe	ct the safety functions of the equipment?	Ĺ	X			
C					_	
Comments (Add	itional pages may be added as necessary)					
	atter Mehrad &					
Evaluated by:	Eddie M. Guerra Da	ate:	8/26/2	012	-	
	Entfil					
	Brian A. Lucarelli Da	ate:	8/26/2	012	_	

Sheet 228 of 461

Paul C. Rizzo Associates, Inc.



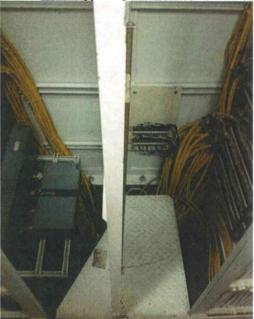
Seismic Walkdown Checklist (SWC)

Equipment ID No. 1H13P0701

Equip. Class 20. Instrument and Control Panels

Equipment Description

Termination Cabinet



File Name: 2-61-1-4-02.jpeg Description: Partial view of component anchorage detail



File Name: 2-63-1-4-02.jpeg Description: Inside view of component

DO S	Paul C. Rizzo Associates, Inc.
_	ENGINEERS & CONSULTANTS

					Status:	Y	N	U
Seismic Walkdown	Checklist (SW	C)						
Equipment ID No.	<u>1H51P003</u> 7	Equip. Class	20. Instrument an	d Control Panels	5			
Equipment Descripti	on <u>ECC</u>	S pump room co	ool HVAC control p	anel.				
Location: Bldg.	AX	Floor El.	599					
Manufacturer, Mode	l, Etc.							
Instructions for Co This checklist may b SWEL. The space be findings. Additional	e used to docum clow each of the	ent the results o following quest	ions may be used to	record the result	ts of judgm			
Anchorage 1. Is the anchorage c	onfiguration ver	ification require	d (i.e., is the item of	ъ Г	Y	N X		
of the 50% of SW	-	-		L	I .			
2. Is the anchorage f	ree of bent, brok	en, missing or l	oose hardware?	[Y	N	U	N/A X
				г	Y	<u>N</u>	U	N/A X
3. Is the anchorage f oxidation?	ree of corrosion	that is more that	n mild surface	L				
				- r	Y	N	U	N/A
4. Is the anchorage f	ree of visible cr	acks in the conci	rete near the anchors	s? [X
				г	Y	N	U	N/A
5. Is the anchorage of (Note: This quest which an anchor	ion only applies	if the item is on	e of the 50% for					<u> </u>
					<u>Y</u>	N	U	7
6. Based on the above	ve anchorage ev	aluations, is the	anchorage free of				X	

potentially adverse seismic conditions?

	C. Rizzo Associates, Inc.			Sheet 23	1 of 461
Seismic Walkdow	n Checklist (SWC)	Status:	Y	Ŋ	U
Equipment ID No.	<u>1H51P0037</u> Equip. Class 20. Instrument and Control	Panels			
Equipment Descrip	ECCS pump room cool HVAC control panel.				
Interaction Effect	ts	Y	N	U	N/A
7 Are soft targets	free from impact by nearby equipment or structures?		<u> </u>		
-	on from scaffolding staging near cabinet. Condition Report issu	ed			L
		Y	N	U	N/A
8. Are overhead ec	quipment, distribution systems, ceiling tiles and lighting,				
and masonry blo	ck walls not likely to collapse onto the equipment?				NT/4
		Y	N		N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with adequ			<u></u>	I
Allachea piping is					
		Y	N	<u> </u>	1
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X	<u>]</u>]
Other Adverse C	onditions	<u></u>	<u></u>	_	
•	ted for and found no other seismic conditions that could	Y X	<u>N</u>		ı
adversely affec	t the safety functions of the equipment?		I		Ţ
Comments (Addit	tional pages may be added as necessary)			_	
	the 19 hours				
Evaluated by:	Eddie M. Guerra Date	e: <u>8/26</u>	/2012	_	
	Erfl				
	Brian A. Lucarelli Date	e: <u>8/26</u>	/2012		



Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1H51P0037</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

ECCS pump room cool HVAC control panel.



File Name: 2-61-2-4-22.jpeg Description: Component Plate ID



File Name: 2-62-2-4-22.jpeg Description: General view of component



Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1H51P0037</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

ECCS pump room cool HVAC control panel.



File Name: 2-63-2-4-22.jpeg Description: Scaffolding staging area



File Name: 2-64-2-4-22.jpeg Description: Tag for scaffolding staging area



Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1H51P0037 Equip. Class 20. Instrument and Control Panels

Equipment Description

ECCS pump room cool HVAC control panel.



File Name: 2-73-2-4-22.jpeg Description: View of ties for scaffolding staging



File Name: 2-94-2-4-22.jpeg Description: View of top attached lines

PCQ	Paul C. Rizzo Associates, Inc.	
-	ENGINEERS & CONSULTANTS	

Seismic Walkdown	Checklist (SWC	2)		Status:	Ŷ	N	U
	<u>1H51P087</u> 1	Equip. Class	20. Instrument and Control Pa	anels			
Equipment Descripti	on <u>Auxi</u>	iary Relay Panel					
Location: Bldg.	CC	Floor El.	620				
Manufacturer, Mode	l, Etc.						
SWEL. The space be	e used to docum slow each of the	ent the results of following question	the Seismic Walkdown of an i ons may be used to record the is checklist for documenting or	results of judgm		-	
Anchorage				Y	N		
 Is the anchorage c of the 50% of SW 5/8" diam anchor 	EL items requiri	ng such verificat	l (i.e., is the item one ion)?]	
2. Is the anchorage f	ree of bent, brok	en, missing or lo	ose hardware?	Y X	N	U	N/A
3. Is the anchorage f oxidation?	ree of corrosion	that is more than	mild surface	Y X	<u>N</u>	U	N/A
4. Is the anchorage f	ree of visible cra	cks in the concre	ete near the anchors?	Y X	<u>N</u>	U	N/A
5. Is the anchorage c				Y X	N	U	N/A
(Note: This questi which an anchor Anchorage confirme	age configuration	n verification is r	required.)				
				V	N	U	

Χ

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Soismic Walkdow	vn Checklist (SWC)	Status:	(Y)	Ν	U
Equipment ID No.		5			
Equipment Descri	ption Auxiliary Relay Panel				
Interaction Effect	ts	N		IT	NT/ A
7. Are soft targets	free from impact by nearby equipment or structures?	Y X	N	U	N/A
8. Are overhead ea	quipment, distribution systems, ceiling tiles and lighting,	Y X	N	U	N/A
	ck walls not likely to collapse onto the equipment?				
9. Do attached line	es have adequate flexibility to avoid damage?	Y X	N	U	N/A
	rigidly supported and attached conduits were found with adequate	V	N	Ш	
	bove seismic interaction evaluations, is equipment free [dverse seismic interaction effects?	Y X	N	<u>U</u>]
or potentially a					
•	conditions and found no other seismic conditions that could of the safety functions of the equipment?	Y X	N	U]
Comments (Addi	tional pages may be added as necessary)		<u> </u>		
	Titte Mahna IV				
Evaluated by:	Eddie M. Guerra Date:	8/26/2	012		
	Entfill				
	Brian A. Lucarelli Date:	8/26/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1H51P0871 Equip. Class 20. Instrument and Control Panels

Auxiliary Relay Panel

Equipment Description



File Name: 2-61-15-4-06.jpeg Description: Component Plate ID



File Name: 2-62-15-4-06.jpeg Description: General View Inside Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1H51P0871</u> Equip. Class 20. Instrument and Control Panels

Auxiliary Relay Panel

Equipment Description



File Name: 2-63-15-4-06.jpeg Description: View of top attached lines



File Name: 2-64-15-4-06.jpeg Description: General view of anchorage

	Rizzo Assc CONSULTANTS	ociates, Inc.				Sheet 239	9 of 461
Soinnia Walledonna	Charletter (Status:	\odot	N	U
Seismic Walkdown	Checklist (SWC)					
Equipment ID No.	1H51P097	5 Equip. Class	20. Instrument and Control Panels				
Equipment Description	on <u>I</u>	Div 2 pump cooling c	ooling HVAC control panel			······	
Location: Bldg.	AX	Floor El.	599				
Manufacturer, Model	l, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Approx. 3' x 3' x 12" panel mounted to concrete column with 4 - 3/8" diam anchor bolts.

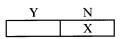
2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Bolts found in good condition.

4. Is the anchorage free of visible cracks in the concrete near the anchors?

- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



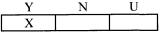
N

U

N/A

Y

1	IN	0	11/74
X			
Y	Ν	U	N/A
X			
Y	Ν	U	N/A
			X
	L	·····	A
Y	Ν	U	N/A
			X



	C. Rizzo Associates, Inc.				Sheet 24	0 of 461
Seismic Walkdow	n Checklist (SWC)	S	tatus:	Ŷ	N	U
Equipment ID No.	<u>1H51P0975</u> Equip. Class 20. Instrument and Control	ol Panels				
Equipment Descrip	tion Div 2 pump cooling cooling HVAC control pane	1				
Interaction Effects	5		v	N	U	N/A
7 Are soft targets f	ree from impact by nearby equipment or structures?		$\frac{Y}{X}$	<u>N</u>		
	in the area. Judged not an adverse condition due to distance				1	J
		•	Y	N	U	N/A
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,		x			
and masonry bloc	k walls not likely to collapse onto the equipment?		v	N	U	N/A
9 Do attached lines	s have adequate flexibility to avoid damage?		$\frac{Y}{X}$	1		
	rigidly supported and attached conduits were found with adeq				1	
			Y	Ν	U	
	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?		X	- <u>u</u>		
Other Adverse Co	nditions					
	ed for and found no other seismic conditions that could		Y	Ν	U	i
adversely affect	the safety functions of the equipment?		X			
Comments (Additi	onal pages may be added as necessary)				-	
	atter Mehring &					
Evaluated by:	Eddie M. Guerra Da	ite:	8/26/2	012	-	
	Eufli					
	Brian A. Lucarelli Da	ute:	8/26/2	012	_	

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			Sheet 24	1 of 461
Seismic Walkdown Checklist (SWC)	Status:	8	N	U
Equipment ID No. <u>1H51P097</u> 5 Equip. Class 20. Instrument and Control Pan	els			
Equipment Description Div 2 pump cooling cooling HVAC control panel			1 miles	
Other supporting or relevant documents and photos (if any	y):			
1H51P975 PUMPROOM COOLING HVAC CONTROL ROOM DIV. 2				



X

File Name: 2-61-3-4-22.jpeg Description: Component Plate ID

File Name: 2-62-3-4-22.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

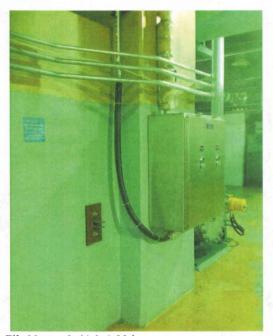
Equipment ID No. 1H51P0975 Equip. Class 20. Instrument and Control Panels

Equipment Description

Div 2 pump cooling cooling HVAC control panel



File Name: 2-63-3-4-22.jpeg Description: View of top conduit attachment



File Name: 2-64-3-4-22.jpeg Description: View of attached line



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1H51P0975</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

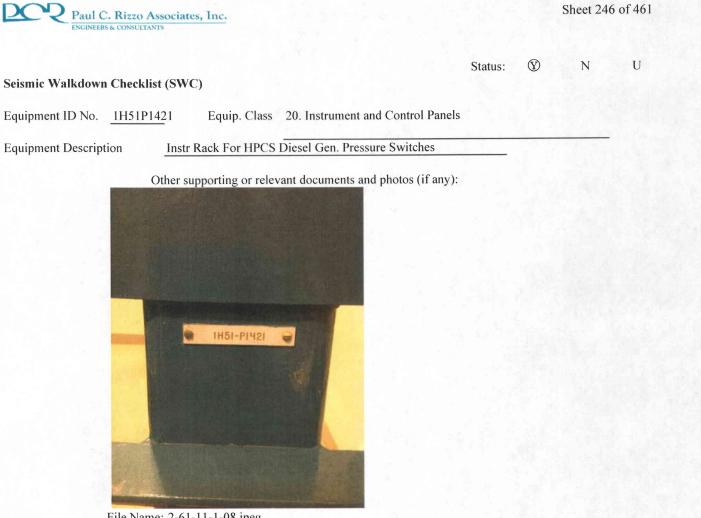
Div 2 pump cooling cooling HVAC control panel



File Name: 2-73-3-4-22.jpeg Description: Scaffolding located in the area

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sneet 24	4 of 461
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>1H51P1421</u> Equip. Class 20. Instrument and Control Panel	s			
Equipment Description Instr Rack For HPCS Diesel Gen. Pressure Switches				
Location: Bldg. DG Floor El. 620				
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the resu findings. Additional space is provided at the end of this checklist for documenting other	lts of judgm	nents and		
Anchorage	Y	N		
1. Is the anchorage configuration verification required (i.e., is the item one		X]	
of the 50% of SWEL items requiring such verification)? Rack mounted on HSS 6 x 6 cantilever post which is anchored to floor with $4 - 1/2$ " diam anchor bolts. Very light weight identified for supporting rack. Total of 9 switches identified.				
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
	Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X		<u> </u>	
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
	Y	N	U	N/A
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 				<u>X</u>
	Y	N	U	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			

	C. Rizzo Associates, Inc. ERS& CONSULTANTS				Sheet 24	5 of 461
Seismic Walkdov	vn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No	. <u>1H51P142</u> 1 Equip. Class 20. Instrument and Co	ontrol Par	nels			
Equipment Descri	ption Instr Rack For HPCS Diesel Gen. Pressure S	witches				
Interaction Effec	ts		#1 ## <u></u>		-	NT/A
7. Are soft targets	free from impact by nearby equipment or structures?	Y X	<u>N</u>	U	N/A	
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,		Y X	N	U	N/A
	bock walls not likely to collapse onto the equipment?				11	
	es have adequate flexibility to avoid damage?	Y	<u>N</u>	U	N/A	
Attached piping is flexibility.	rigidly supported and attached conduits were found with a	adequate				
	bove seismic interaction evaluations, is equipment free		Y X	N	U	
of potentially a	dverse seismic interaction effects?					
	Conditions and found no other seismic conditions that could be the safety functions of the equipment?		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)				-	
	Tetto Mahone 1					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	_	
	ErAfli					
	Brian A. Lucarelli	Date:	8/26/2	012	_	



File Name: 2-61-11-1-08.jpeg Description: Component Plate ID



File Name: 2-62-11-1-08.jpeg Description: General view of Component

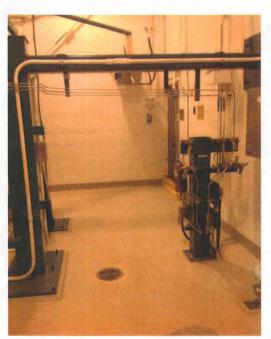


Seismic Walkdown Checklist (SWC)

Equipment ID No. 1H51P1421 Equip. Class 20. Instrument and Control Panels

Equipment Description

Instr Rack For HPCS Diesel Gen. Pressure Switches



File Name: 2-63-11-1-08.jpeg Description: General view with attached lines



File Name: 2-64-11-1-08.jpeg Description: General view of anchorage

$\mathbf{D}\mathbf{C}\mathbf{S}$	Paul C. Rizzo Associates,	Inc.
	ENGINEERS & CONSULTANTS	

Seismic Walkdowr	n Checklist ((SWC))			Status:	\heartsuit	N	U
Equipment ID No.	1M16F002	20A	Equip. Class	0. Other					
Equipment Descript	tion	Vacuu	m Breaker Che	ck Valve					
Location: Bldg.	СО		Floor El.	642	·				
Manufacturer, Mod									
Instructions for Co This checklist may SWEL. The space b findings. Additional	be used to de below each o	ocume f the fo	nt the results of ollowing questi	ons may be used to	record the resu	ilts of judgm			
Anchorage									
1. Is the anchorage of the 50% of SW Mounted on ~12" di structure thus not w	VEL items re <i>liam line wel</i> l	equiring l suppo	g such verificat	ion)?		Y	N X		
2 I. the such as a family of the second s	C		,			Y	N	U	N/A
2. Is the anchorage	free of bent,	brokei	i, missing or lo	ose hardware?			I		X
3. Is the anchorage oxidation?	free of corro	sion th	at is more than	mild surface		Y	N	U	N/A X
4. Is the anchorage	free of visib	le cracl	ks in the concre	ete near the anchors	?	Y	N	U	N/A X
6 T (I)	<i>c</i>					Y	N	U	N/A
5. Is the anchorage (Note: This quest which an anchor	tion only app	olies if	the item is one	of the 50% for		LL	I	i	X
 Based on the abo potentially advert 	-			nchorage free of		Y X	N	U]

DCS	Paul	c.	Rizzo	Associates,	Inc.
	ENGINE	ERS &	CONSULT	TANTS	

Saiamia Walleday			Status:	(Y)	Ν	U
Seisinic warkuov	vn Checklist (SWC)					
Equipment ID No	. <u>1M16F00</u> 20A Equip. Class 0. Other					
Equipment Descri	ption Vacuum Breaker Check Valve	·				-
Interaction Effec	ts				-	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U 	N/A
			Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X		L	
			Y	N	U	N/A
	es have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with a		X			
Allachea piping is	rigialy supported and attached conduits were jound with a	aequate				
			Y	N	<u> </u>	1
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X		L	J
Other Adverse C					-	
	ted for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	U	1
uuvoiseiy uiiee	a die salety functions of the equipment.				I	1
Comments (Addi	tional pages may be added as necessary)				-	
	atter Mahran i					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	-	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M16F0020A Equip. Class 0. Other

Equipment Description

Vacuum Breaker Check Valve

Other supporting or relevant documents and photos (if any):



File Name: 2-61-6-4-12.jpeg Description: General view of component location

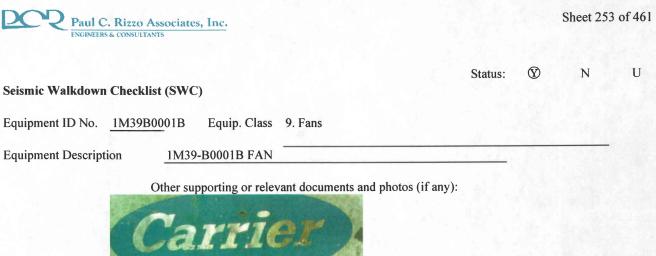
DC5	Paul	C.	Rizzo	Associates,	Inc.
	ENGINE	ERS &	CONSUE	IANTS	

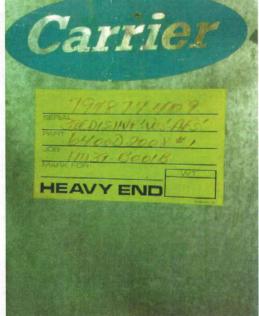
Seismic Walkdown	Checklist (S	SWC)			Status:		Ν	U
	<u>1M39B00</u> 0		, Equip. Class	9. Fans					
Equipment Descript	ion <u>1</u>	M39	-B0001B FAN						
Location: Bldg.	AX		Floor El.	574					
Manufacturer, Mode	el, Etc								
Instructions for Co This checklist may b SWEL. The space b findings. Additional	be used to do elow each of	cume the f	ent the results of ollowing question	ons may be used	to record the resu	ults of judgr	nents and	-	
Anchorage						Y	N		
1. Is the anchorage of of the 50% of SW Anchored to steel pl	EL items rec	quirin	g such verificat	ion)?	one	X]	
2. Is the anchorage f	free of bent, l	oroke	n, missing or lo	ose hardware?		Y X	N	U	N/A
3. Is the anchorage to oxidation?	free of corros	ion tl	hat is more than	mild surface		Y X	N	U	N/A
Mild oxidation judg	ed not a conc	ern.							
4. Is the anchorage	free of visible	e crac	ks in the concre	te near the ancho	rs?	Y	<u>N</u>	U	N/A X
						Y	N	U	N/A
5. Is the anchorage of (Note: This quest which an anchor <i>Anchorage confirme</i> 87254-026-54.	ion only appl rage configur	lies if ation	the item is one verification is r	of the 50% for equired.)		<u> </u>			<u> </u>
6. Based on the abo	ve anchorage	eval	uations, is the a	nchorage free of		Y X	<u>N</u>	<u> </u>	1

potentially adverse seismic conditions?

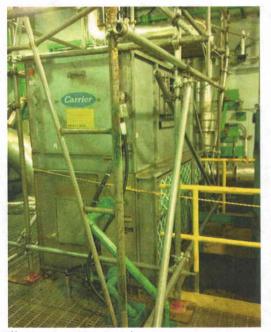
DCS	Paul	c.	Rizzo	Associates,	Inc
	ENGINE	ERS 8	CONSUL	IANTS	

Saismia Walldow	un Chaeldist (SWC)		Status:	\heartsuit	Ν	U
Seisinie warkuuw	vn Checklist (SWC)					
Equipment ID No.	<u>1M39B00</u> 01B Equip. Class 9. Fans					
Equipment Descri	ption 1M39-B0001B FAN					
Interaction Effec	ts		11 Aug			
7 Are coft torgets	free from import he nearly equipment on structures?		Y X	N	U	N/A
7. Are son targets	free from impact by nearby equipment or structures?					
				NT		NT/ Å
8. Are overhead ea	quipment, distribution systems, ceiling tiles and lighting,		Y X	<u>N</u>	U	N/A
and masonry blo	I		<u></u>			
			Y	Ν	U	N/A
9. Do attached line		X				
Attached piping is	rigidly supported and attached conduits were found with a	dequate				
			Y	N	U	
	bove seismic interaction evaluations, is equipment free		X			
	dverse seismic interaction effects? fied in area. Judged not a seismic concern.					
	6					
Other Adverse C	onditions					
11. Have you look	ed for and found no other seismic conditions that could		Y	N	U	
adversely affec	t the safety functions of the equipment?		Х			
Comments (Addit	tional pages may be added as necessary)				•	
	dette Mina i					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012		
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	012		





File Name: 2-61-5-1-19.jpeg Description: Component ID Tag



File Name: 2-62-5-1-19.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M39B0001B Equip. Class 9. Fans

Equipment Description

1M39-B0001B FAN



File Name: 2-63-5-1-19.jpeg Description: View of anchorage detail



File Name: 2-64-5-1-19.jpeg Description: View of component anchorage detail



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M39B0001B Equip. Class 9. Fans

Equipment Description

1M39-B0001B FAN



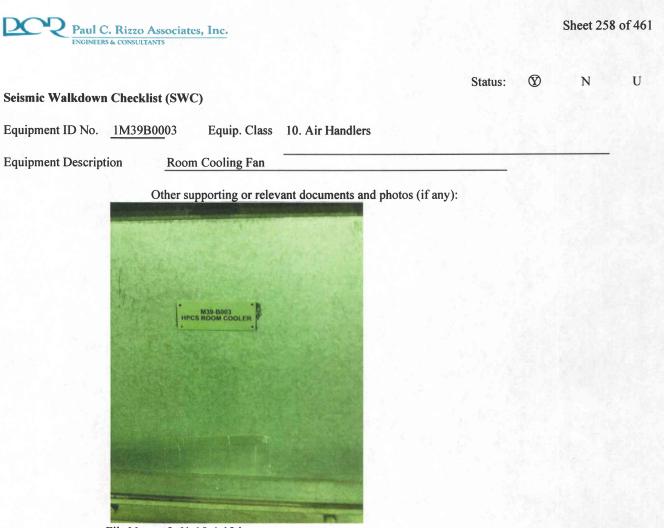
File Name: 2-73-5-1-19.jpeg Description: Scaffolding located in the area

BCS	Paul C. Rizzo Associates, Inc.	
	ENGINEERS & CONSULTANTS	

Seismic Walkdown Checklis	tt (SWC)		Status:	\odot	N	U
	. ,					
Equipment ID No. <u>1M39B0</u>	003 Equip. Class	10. Air Handlers				
Equipment Description	Room Cooling Fan					
Location: Bldg. <u>AX</u>	Floor El.	574				
Manufacturer, Model, Etc.						
SWEL. The space below each	document the results of of the following question	the Seismic Walkdown of an item ons may be used to record the resu is checklist for documenting other	lts of judgm			
Anchorage						
1 Is the such as a first former of the second s			Y	<u>N</u>		
1. Is the anchorage configurat of the 50% of SWEL items	•		X			
detail does not appear to engo	age the supporting beam	" diam machine bolts. Anchorage a flanges. Drawing D-512-021 top flange of supporting beams.				
			Y	<u>N</u>	U	N/A
2. Is the anchorage free of ber	ıt, broken, missing or lo	ose hardware?	X			
2. In the englorance free of some	nonion that is many than		Y X	<u>N</u>	U	N/A
3. Is the anchorage free of cor oxidation?	rosion that is more than	Inno surface	<u> </u>	l	. <u>.</u>	
Slight surface corrosion ident	ified but judged not a co	oncern.				
			Y	N	U	N/A
4. Is the anchorage free of vis	ible cracks in the concre	ete near the anchors?	X			
5. Is the anchorage configurat	ion consistent with plan	t documentation?	Y X	N	U	N/A
(Note: This question only a which an anchorage config Drawing D-512-021 confirms	pplies if the item is one guration verification is r	of the 50% for equired.)	I	I		
6. Based on the above anchora potentially adverse seismic	-	nchorage free of	Y X	<u>N</u>	U	

DCS	Paul	c.	Rizzo	Associates,	Inc.
	ENGINE	ERS &	CONSUL	IANTS	

		Status:	\mathfrak{V}	Ν	U
Seismic Walkdow	n Checklist (SWC)				
Equipment ID No.	<u>1M39B00</u> 03 Equip. Class 10. Air Handlers				
Equipment Descrip	tion Room Cooling Fan				
Interaction Effects	8				
		Y	N	U	N/A
	ree from impact by nearby equipment or structures?	X			
Temporary scaffold	ling located in the area judged not a interaction hazard.				
		Y	N	U	N/A
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,	X			
	k walls not likely to collapse onto the equipment?	L I			
		**	N Y	* *	N T/A
9 Do attached line	s have adequate flexibility to avoid damage?	Y X	N	U	N/A
	rigidly supported and attached conduits were found with adequate				
		Y	Ν	U	
	pove seismic interaction evaluations, is equipment free	X			
of potentially ad	verse seismic interaction effects?				
Other Adverse Co	nditions		· · · · ·		
11. Have you looke	ed for and found no other seismic conditions that could	Y	N	U	
adversely affect	the safety functions of the equipment?	X			
Commonts (Additi	onal pages may be added as necessary)				
Comments (Additi	onal pages may be added as necessary)				
	the Mahna I				
Evaluated by:	Eddie M. Guerra Date:	8/26/2	012		
	En Afli				
	Brian A. Lucarelli Date:	8/26/2	012		



File Name: 2-61-15-4-18.jpeg Description: Component Plate ID



File Name: 2-62-15-4-18.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M39B0003

1M39B0003 Equip. Class 10. Air Handlers

......

Equipment Description

Room Cooling Fan



File Name: 2-63-15-4-18.jpeg Description: General view of mounting base configuration



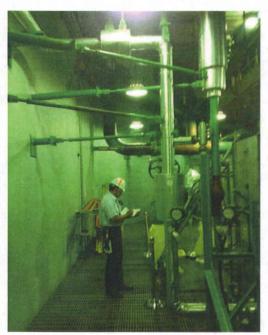
File Name: 2-64-15-4-18.jpeg Description: View of attached lines



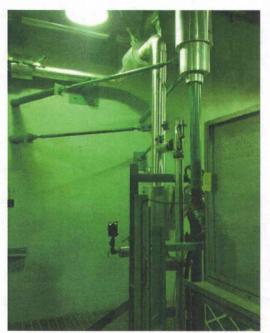
Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 1M39B0003
 Equip. Class
 10. Air Handlers

 Equipment Description
 Room Cooling Fan



File Name: 2-73-15-4-18.jpeg Description: View of pipe line wall supported bracing



File Name: 2-94-15-4-18.jpeg Description: View of pipe line wall supported bracing



Seismic Walkdown Checklist (SWC)

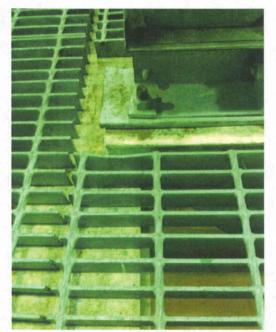
Equipment ID No. 1M39B0003 Equip. Class 10. Air Handlers

Equipment Description

Room Cooling Fan



File Name: 2-95-15-4-18.jpeg Description: Scaffolding located near component



File Name: 2-96-15-4-18.jpeg Description: View of typical anchorage detail

Paul C. Rizzo Associa	tes, Inc.				Sheet 262	of 461
Seismic Walkdown Checklist (SW	/C)		Status:	\odot	N	U
Equipment ID No. <u>1M39B00</u> 06		10. Air Handlers				
Equipment Description Fan						
Location: Bldg. <u>AX</u>	Floor El.	574				
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

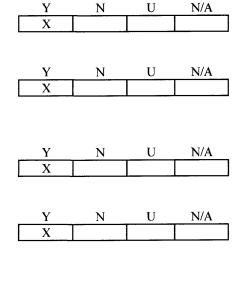
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Anchored through grating to steel beams with 8 - 5/8" diam machine bolts. Anchorage detail does not appear to engage the supporting beam flanges. Drawing D-512-022 reviewed and it shows the anchors are stud-welded to top flange of supporting beams.

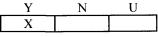
- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
 Drawing D-512-021 and D-512-022 confirms anchorage configuration.
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Y

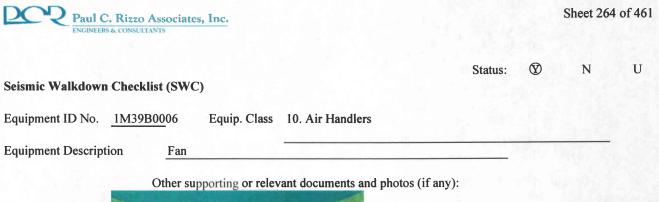
X

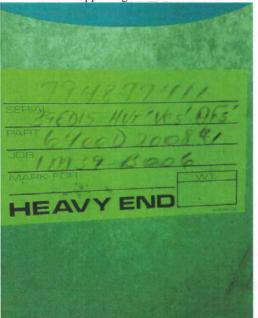
N





Seismic Walkdov	vn Checklist (SWC)		Status:	(i)	N	U
Equipment ID No						
Equipment Descri	ption Fan		······································		-	-
Interaction Effec	ts		V	NT	TT	N 1/A
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	<u>N</u>	U	N/A
			Y	<u>N</u>	U	N/A
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X			
			Y	<u>N</u>	U	N/A
	es have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with a	idequate	X			
10 Paged on the	sharra aniamia internation angluationa is any important from		Y X	N	U	1
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?				·]
Other Adverse C	Conditions		· · · · ·		-	
	xed for and found no other seismic conditions that could t the safety functions of the equipment?		Y X	N	U]
Comments (Addi	tional pages may be added as necessary)				-	
	atter Mahren 1					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	-	
	Ertfill					
	Brian A. Lucarelli	Date:	8/26/20	012	_	





File Name: 2-61-9-4-18.jpeg Description: Component Plate ID



File Name: 2-62-9-4-18.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M39B0006 Equip. Class 10. Air Handlers

Fan

Equipment Description



File Name: 2-63-9-4-18.jpeg Description: View of anchorage detail



File Name: 2-64-9-4-18.jpeg Description: View of mounting base configuration



Seismic Walkdown Checklist (SWC)

Fan

Equipment ID No. <u>1M39B00</u>06 Equip. Class 10. Air Handlers

Equipment Description



File Name: 2-73-9-4-18.jpeg Description: View of pipe lines attached to component



File Name: 2-94-9-4-18.jpeg Description: View of pipe line wall supported bracing



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M39B0006 Equip. Class 10. Air Handlers

Fan

Equipment Description



File Name: 2-95-9-4-18.jpeg Description: View of component wall mounted bracing



File Name: 2-96-9-4-18.jpeg Description: View of typical anchorage detail

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 26	8 of 461
	Status:	\heartsuit	N	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>1M43C00</u> 01A Equip. Class 9. Fans				
Equipment Description Div 1 DG RM Supply Fan 1A				
Location: Bldg. DG Floor El. 620				
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other	ts of judgn	nents and		
Anchorage	Y	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Rigidly supported from wall by 6 - 1" diam bolts to C4 channels. C4's attached to wall with 2 - 3/4" diam anchor bolts. 	X]	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	<u>N</u>	U	N/A
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Х			
	Y	N	U	N/A
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage configuration confirmed by detail D drawing 517-0024. 	X			
6. Based on the above anchorage evaluations, is the anchorage free of	Y X	N	U	

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

	C. Rizzo Associates, Inc. ERS & CONSULTANTS				Sheet 26	9 of 461
Seismic Walkdow	vn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	<u>1M43C00</u> 01A Equip. Class 9. Fans					
Equipment Descri	ption Div 1 DG RM Supply Fan 1A					
Interaction Effec	ts		V	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	1		
	quipment, distribution systems, ceiling tiles and lighting, the walls not likely to collapse onto the equipment?	į	Y X	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with ad	equate	Y X	N	U	N/A
10. Based on the a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	equate	Y X	N	U	
Other Adverse C 11. Have you look			Y X	N	– U	
Comments (Addi	tional pages may be added as necessary)		.e		_	
	atter Mehna I					
Evaluated by:	Eddie M. Guerra I	Date:	8/26/2	012	_	
	Brian A. Lucarelli I	Date:	8/26/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1M43C0001A</u> Equip. Class 9. Fans

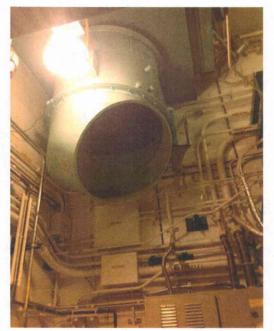
Equipment Description

Div 1 DG RM Supply Fan 1A

Other supporting or relevant documents and photos (if any):



File Name: 2-61-18-4-08.jpeg Description: Component Plate ID



File Name: 2-62-18-4-08.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

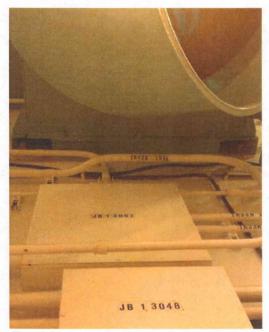
Equipment ID No. 1M43C0001A Equip. Class 9. Fans

Equipment Description

Div 1 DG RM Supply Fan 1A



File Name: 2-63-18-4-08.jpeg Description: View of attached small lines



File Name: 2-64-18-4-08.jpeg Description: View of wall mounting base

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 272	2 of 461
Seismic Walkdown Checklist (SWC)		Status:	\odot	N	U
× ,					
	p. Class 9. Fans	-			
Equipment Description Motor Fan	· · · · · · · · · · · · · · · · · · ·	·····			
Location: Bldg. DG Floo	r El. <u>620</u>				
Manufacturer, Model, Etc.					

Instructions for Completing Checklist

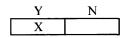
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Rigidly supported from wall by 6 - 1" diam bolts to C4 channels. C4's attached to wall with 2 - 3/4" diam anchor bolts.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
 Detail D drawing 517-0024 confirms anchorage configuration.
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



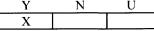
Y

	X			
		<u> </u>	<u></u>	
	V	N	11	NI/A
	Y	N	U	N/A
	X			
	Y	N	<u> </u>	N/A
s?	X			
	Y	Ν	U	N/A
	X			
	V	N	П	

Ν

U

N/A



Paul C. Rizzo Associates, Inc.

Seismic Walkdo	wn Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No	b. <u>1M43C00</u> 02B Equip. Class 9. Fans					
Equipment Descr	iption Motor Fan					
Interaction Effe	cts				-	1 /
7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y X	N	U	N/A
			Y	N	U	N/A
	nes have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with a	ndequate	X			
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U]
F						
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	U]
Comments (Add	itional pages may be added as necessary)					
	atter Mahrie i					
Evaluated by:	Eddie M. Guerra	Date:	8/26/20)12		
	Entfll					
	Brian A. Lucarelli	Date:	8/26/20)12		



Status:	(N	U

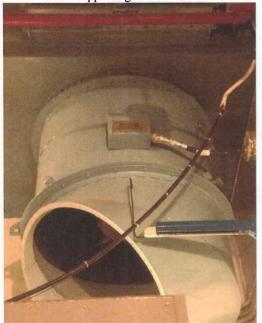
Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M43C0002B Equip. Class 9. Fans

Motor Fan

Equipment Description

Other supporting or relevant documents and photos (if any):



File Name: 2-61-15-1-08.jpeg Description: Component Plate ID



File Name: 2-62-15-1-08.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

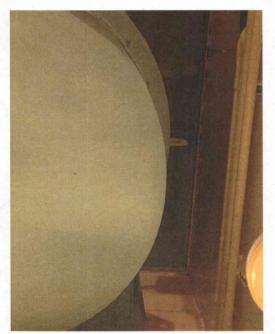
Equipment ID No. 1M43C0002B Equip. Class 9. Fans

Equipment Description

Motor Fan



File Name: 2-63-15-1-08.jpeg Description: View of mounting base



File Name: 2-64-15-1-08.jpeg Description: View of wall welding detail



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M43C0002B Equip. Class 9. Fans

Equipment Description

Motor Fan



File Name: 2-73-15-1-08.jpeg Description: View of wall mounting configuration

DCS	Paul C	C. Rizzo	Associates,	Inc.
	ENGINEER	S & CONSUL	TANTS	

Seismic Walkdowr	1 Checklist	(SWC)		S	status:	\odot	N	U
	i Cheekiist	Unc	-						
Equipment ID No.	<u>1M43F00</u>	30A	Equip. Class	7. Pneumatic-Operated Valves	s				
Equipment Descript	tion	DIV 1	Recirc Damper	•					
Location: Bldg.	DG		Floor El.	<u>620</u>					
Manufacturer, Mod	el, Etc.								
SWEL. The space b	be used to de below each de	locume of the f	nt the results of ollowing question	the Seismic Walkdown of an it ons may be used to record the re is checklist for documenting ot	esults of	f judgm			
Anchorage									
of the 50% of SW	VEL items r tached to 1	equirin M43-C	g such verificat 001A. Damper o	l (i.e., is the item one ion)? operator braced back to duct		Y	N X		
2. Is the anchorage	free of bent	, broke	n, missing or lo	ose hardware?		Y X	<u>N</u>	U	N/A
3. Is the anchorage oxidation?	free of corre	osion tl	nat is more than	mild surface		Y X	<u>N</u>	U	N/A
4. Is the anchorage	free of visit	ole crac	ks in the concre	te near the anchors?		Y X	<u>N</u>	U	N/A
5. Is the anchorage						Y	N	U	N/A X
(Note: This quest which an ancho6. Based on the abo potentially advert	rage config we anchora	uration ge eval	verification is r uations, is the a	equired.)		Y X	<u>N</u>	U	

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet
Seismic Walkdown Checklist (SWC)	Status:	\odot	N
Equipment ID No. <u>1M43F0030A</u> Equip. Class 7. Pneumatic-Operated Valves			
Equipment Description DIV 1 Recirc Damper			
Interaction Effects			_
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N	U
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y X	N	U
and masonry block walls not likely to collapse onto the equipment?			
9. Do attached lines have adequate flexibility to avoid damage?	Y X	N	U
Attached piping is rigidly supported and attached conduits were found with adequate	Y	N	U

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Comments (Additional pages may be added as necessary)

atter Mehne V

Evaluated by:

Eddie M. Guerra

___Date: ____

Date:

8/26/2012

8/26/2012

Χ

Y

Х

Ν

U

Entfl

Brian A. Lucarelli

U

N/A

N/A

N/A

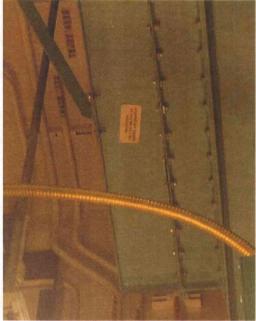


Seismic Walkdown Checklist (SWC)

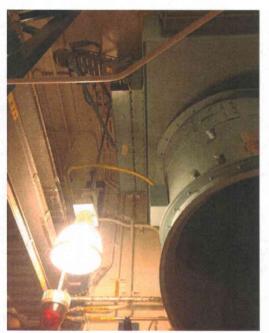
Equipment ID No. 1M43F0030A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

DIV 1 Recirc Damper



File Name: 2-61-1-4-08.jpeg Description: Component Plate ID



File Name: 2-62-1-4-08.jpeg Description: General view of Component

Paul C. Rizzo A ENGINEERS & CONSULTAN			Sheet 280 of 461			
			Status:	\odot	N	U
Seismic Walkdown Checklis	st (SWC)					
Equipment ID No. <u>1M43F0</u>	0230B Equip. Class	7. Pneumatic-Operated Valves				
Equipment Description	Motor Damper					
Location: Bldg. DG	Floor El.	620				
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Mounting consists of C4 channels welded to inserts in wall with at least 14" of 5/16" weld at each end of C4's.

N

X

2. Is the anchorage free of bent, broken, missing or loose hardware?

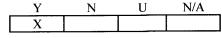
3. Is the anchorage free of corrosion that is more than mild surface

X

Ν

Y

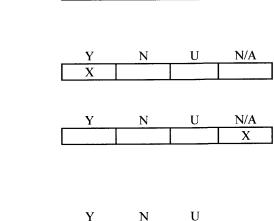
Х



U

N/A

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Pau ENGIN			Sheet 28	1 of 461		
Seismic Walkdo	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	b. <u>1M43F02</u> 30B Equip. Class 7. Pneumatic-Operated	Valves				
Equipment Descr	iption Motor Damper					
Interaction Effe	cts	<u>_</u> ,	V	•	 T T	
7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
8. Are overhead a	equipment, distribution systems, ceiling tiles and lighting,		Y X	<u>N</u>	U	N/A
	ock walls not likely to collapse onto the equipment?		L			<u> </u>
	nes have adequate flexibility to avoid damage?		Y X	N	U	N/A
	s rigidly supported and attached conduits were found with add	equate	Y	N	U	I
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?					
Other Adverse (11. Have you loo	Conditions ked for and found no other seismic conditions that could		Y	N	– U	
	ct the safety functions of the equipment?		X			
Comments (Add	itional pages may be added as necessary)					
	atter Mehren V					
Evaluated by:	Eddie M. Guerra Date:		8/26/20	012	_	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/20	012		



Seismic Walkdown Checklist (SWC)

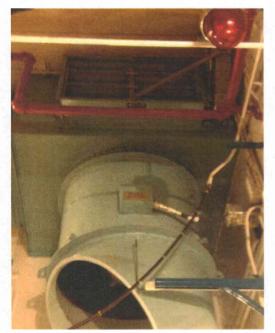
Equipment ID No. 1M43F0230B Equip. Class 7. Pneumatic-Operated Valves

Motor Damper

Equipment Description



File Name: 2-61-14-4-08.jpeg Description: Component Plate ID



File Name: 2-62-14-4-08.jpeg Description: General view of Component





Seismic Walkdown Checklist (SWC)

Equipment ID No. 1M43F0230B Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Motor Damper



File Name: 2-63-14-4-08.jpeg Description: General view of Component

Paul C. Rizzo Associates, Inc. ENGINEERS& CONSULTANTS							84 of 461		
					Status:	\odot	N	U	
Seismic Walkdowr	n Checklist	(SWC)	1						
Equipment ID No.	1P42A000)1B	Equip. Class	21. Tanks and Heat Exchangers					
Equipment Descript	tion	ECCW	Surge Tank	· · · · · · · · · · · · · · · · · · ·					
Location: Bldg.	IB		Floor El.	665					

Instructions for Completing Checklist

Manufacturer, Model, Etc.

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Small horizontal tank mounted on two saddles. Each saddle anchored with 4 - 1" diam anchor bolts.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- X U N/A Y N X

U

U

U

N/A

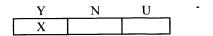
N/A

N/A

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Anchorange configuration confirmed with Drawing 413-0237, Equipment Foundation "J".

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



N Y Х

N

N

N

Y

X

Y X

Y

	I C. Rizzo Associates, Inc. FERS& CONSULTANTS			Sheet 28	5 of 461	
Seismic Walkdo	wn Checklist (SWC)	Status:	Ŷ	N	U	
Equipment ID No	D. <u>1P42A0001B</u> Equip. Class 21. Tanks and Heat Exchangers					
Equipment Descr	iption ECCW Surge Tank					
Interaction Effe	cts	V	.	-	NT/A	
7. Are soft targets	s free from impact by nearby equipment or structures?	Y X	<u>N</u>	U	N/A	
	equipment, distribution systems, ceiling tiles and lighting,	Y X	<u>N</u>	U	N/A	
9. Do attached lir	nes have adequate flexibility to avoid damage?	Y X	N	U	N/A	
10. Based on the	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	Y X	N	U		
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?			N	U		
Comments (Add	itional pages may be added as necessary)			_		
	Tetto My and 1					
Evaluated by:	Eddie M. Guerra Date:	8/26/2	012	_		
	Entell					
	Brian A. Lucarelli Date:	8/26/2	012	_		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P42A0001B</u> Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

ECCW Surge Tank



File Name: 2-61-1-4-11.jpeg Description: General view of component



File Name: 2-62-1-4-11.jpeg Description: View of anchorage detail



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P42A0001B</u> Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

ECCW Surge Tank



File Name: 2-63-1-4-11.jpeg Description: View of pipe line lateral supports



File Name: 2-64-1-4-11.jpeg Description: View of component bracing configuration

DCS	Paul C. Rizzo Associates,	Inc.
	ENGINEERS & CONSULTANTS	

 \heartsuit Status: Ν U

alkdown Checklist (SW	'C)
alkdown Checklist (SW	Ċ)

Equipment ID No.	<u>1P42B00</u>	D1B Equip. Class	21. Tanks and Heat Exchangers	
Equipment Descript	tion	ECCW Heat Exchange	ger	
Location: Bldg.	CC	Floor El.	574	
Manufacturer, Mode	el, Etc.			

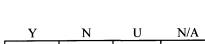
Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Mounted on two saddles each one anchored with 12 anchor bolts. 4-2" diam and 8-1 1/4" diam anchors. Saddles anchored to 6 in-thick concrete pads. Slotted holes not vissible due to large washers.

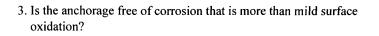


N

Y

Х

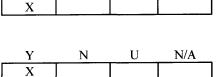
2. Is the anchorage free of bent, broken, missing or loose hardware?

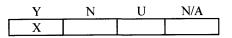


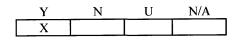
4. Is the anchorage free of visible cracks in the concrete near the anchors? Anchorage inspected and found in adequate condition.

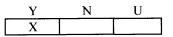
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage configuration confirmed by Drawing 414-0046, Foundation Plan "E".

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?











Seismic Walkdow	n Checklist (SWC)		Status:		Ν	U
Equipment ID No.		changers				
Equipment Descrip	btion ECCW Heat Exchanger					
Interaction Effect	s		Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	C	X			
			Y	N	U	N/A
and masonry blo	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment? <i>he area judged not a concern due to end tube spring type</i>		X			
0 Do ottochod line	a hava adagusta flavikilitu ta avaid damaasa		Y X	N	U	N/A
	s have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with ad	L lequate	<u> </u>			
10 Based on the a	bove seismic interaction evaluations, is equipment free	Г	Y X	N	U	
	lverse seismic interaction effects?	L				
Other Adverse Co	onditions					
	ed for and found no other seismic conditions that could the safety functions of the equipment?	E	Y X	N	U	
Comments (Addit	ional pages may be added as necessary)					
	atter Mana i					
Evaluated by:	Eddie M. Guerra	Date: _	8/26/2	012		
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	012		



Seismic Walkdown Checklist (SWC)

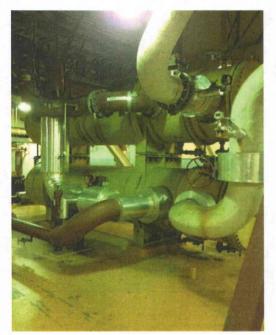
Equipment ID No. 1P42B0001B Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

ECCW Heat Exchanger



File Name: 2-61-4-4-01.jpeg Description: Component Plate ID



File Name: 2-62-4-4-01.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

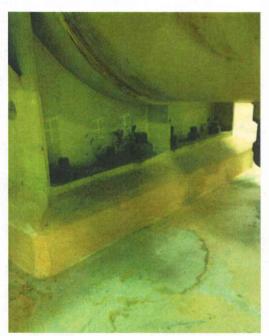
Equipment ID No. <u>1P42B0001B</u> Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

ECCW Heat Exchanger



File Name: 2-63-4-4-01.jpeg Description: View of main pipe line bracing



File Name: 2-64-4-4-01.jpeg Description: Anchorage view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1P42B0001B Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

ECCW Heat Exchanger



File Name: 2-73-4-4-01.jpeg Description: View of anchorage detail



File Name: 2-94-4-4-01.jpeg Description: View of lateral bracings



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1P42B0001B Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

ECCW Heat Exchanger



File Name: 2-95-4-4-01.jpeg Description: View of nozzle piping and supports

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS						Sheet 294	4 of 461	
				Status:	Ŷ	N	U	
Seismic Walkdown	Checklist (SW	/C)						
Equipment ID No.	<u>1P42C000</u> 1B	Equip. Class	5. Horizontal Pumps					
Equipment Descript	ion <u>ECC</u>	CW Pump	·····					
Location: Bldg.	CC	Floor El.	574					
Manufacturer, Mod	el. Etc.							

Instructions for Completing Checklist

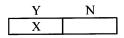
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

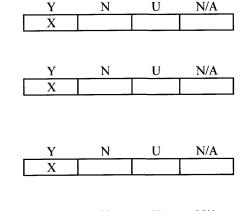
Anchorage

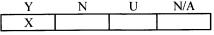
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

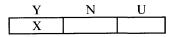
Both motor and pump mounted on skid to concrete pad with 6 - 7/8" diam anchor bolts.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage configuration confirmed by Drawing 414-0046, Foundation Plan "D".
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?









DCS	Paul	c.	Rizzo	Associates,	Inc.
_	ENGINEE	RS &	CONSUL	IANTS	

				Status:	\odot	Ν	U
Seismic Walkdown	Checklist (SWC)						
Equipment ID No.	<u>1P42C000</u> 1B Equip. C	lass 5. Horizontal Pumps					
Equipment Descripti	on ECCW Pump	<u></u>					
Interaction Effects							
7 Are soft targets fre	e from impact by nearby eq	uinment or structures?	Г	$\frac{Y}{X}$	N	U	N/A
7. The solt targets it	e nom impact by hearby eq	applient of structures:	L	<u> </u>			
				Y	N	U	N/A
-	oment, distribution systems			X			
and masonry block	walls not likely to collapse	onto the equipment?					
				Y	N	U	N/A
	ave adequate flexibility to a	-		X			
Attached piping is rig	idly supported and attached	d conduits were found with	adequate				
				Y	N	U	
	ve seismic interaction evalu			Х			
of potentially adv	erse seismic interaction effe	ects?					
Other Adverse Con	litions						
11. Have you looked	for and found no other seisi		_	Y	N	U	
adversely affect the	e safety functions of the eq	uipment?	L	X			
Comments (Addition	al pages may be added as n	necessary)					
	Etter Uchna V) - 2 					
Evaluated by:	Eddie M. Guerra		_Date: _	8/26/2	012		
	S.A.U						

Date:

8/26/2012

Brian A. Lucarelli



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1P42C0001B Equip. Class 5. Horizontal Pumps

Equipment Description

ECCW Pump



File Name: 2-61-9-1-01.jpeg Description: Component Plate ID



File Name: 2-62-9-1-01.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P42C0001B</u> Equip. Class 5. Horizontal Pumps

Equipment Description

ECCW Pump



File Name: 2-63-9-1-01.jpeg Description: Typical anchorage for pump to skid



File Name: 2-64-9-1-01.jpeg Description: Typical anchorage to concrete



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1P42C0001B Equip. Class 5. Horizontal Pumps

Equipment Description

ECCW Pump

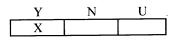


File Name: 2-73-9-1-01.jpeg Description: Mounting base to concrete pad detail

DCS	Paul 0	c.	Rizzo	Associates,	Inc
_	ENGINEEI	R5 &	CONSULT	IANTS	

 \mathfrak{V} N U Status: Seismic Walkdown Checklist (SWC) Equip. Class 7. Pneumatic-Operated Valves Equipment ID No. 1P42F0665A **Equipment Description** Temperature Control Valve Location: Bldg. CCFloor El. 574 Manufacturer, Model, Etc. **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage Y N Х 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Horizontally mounted on large pipe $\sim 10^{"}$ diameter. Main line showed adequate support. U N/A Y Ν X 2. Is the anchorage free of bent, broken, missing or loose hardware? U N/A N Y Х 3. Is the anchorage free of corrosion that is more than mild surface oxidation? N U N/A Y X 4. Is the anchorage free of visible cracks in the concrete near the anchors?

- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



N

Y

U

N/A

Х



Seismic Walkdow	n Chaoklist (SWC)		Status:	(N	U
Seisinie Warkuuw	i Checkist (SWC)					
Equipment ID No.	<u>1P42F066</u> 5A Equip. Class 7. Pneumatic-Operate	d Valves				
Equipment Descrip	tion Temperature Control Valve					
Interaction Effects					-	
Interaction Effects	, ,		Y	N	U	N/A
7. Are soft targets f	ree from impact by nearby equipment or structures?		X			
			Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting,		Χ			
and masonry bloc	k walls not likely to collapse onto the equipment?					
0 De etteched line			Y	N	<u> </u>	N/A
	s have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with a	ndeauate	X			
11.6.5						
10 D. 1 41 1			Y	N	U	1
	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?		X			
Other Adverse Co	nditions				-	
	d for and found no other seismic conditions that could		Y	N	U	1
adversely affect	the safety functions of the equipment?		X			
Comments (Additi	onal pages may be added as necessary)				-	
	the Mahna V					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	-	
	E.All					
	Brian A. Lucarelli	Date:	8/26/2	012	_	



Seismic Walkdown Checklist (SWC)

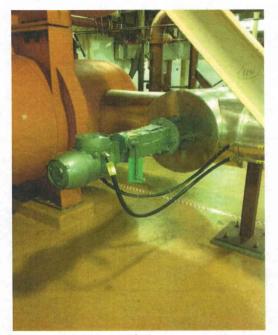
Equipment ID No. 1P42F0665A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Temperature Control Valve



File Name: 2-61-2-1-01.jpeg Description: Component Plate ID



File Name: 2-62-2-1-01.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P42F0665A</u> Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Temperature Control Valve



File Name: 2-63-2-1-01.jpeg Description: View of bolting detail on valve



File Name: 2-64-2-1-01.jpeg Description: Close up view of component

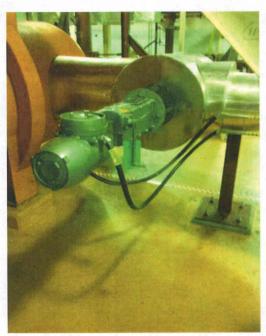


Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P42F0665A</u> Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Temperature Control Valve



File Name: 2-73-2-1-01.jpeg Description: Main line support and attached lines

	. Rizzo Associates & consultants	, Inc.				Sheet 304	4 of 461
~				Status:	\odot	N	U
Seismic Walkdown	Checklist (SWC)					
Equipment ID No.	<u>1P42F066</u> 5B	Equip. Class	7. Pneumatic-Operated Valves				
Equipment Description	on <u>Temp</u>	erature Control	Valve				
Location: Bldg.	CC	Floor El.	574				
Manufacturer, Mode	l, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

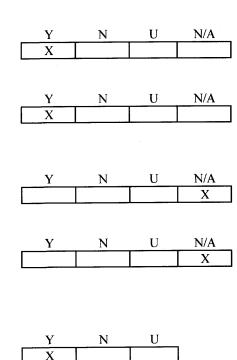
Horizontally mounted on large pipe $\sim 10''$ diameter. Main line showed adequate support.

Y

N

X

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Paul ENGINEE	C. Rizzo Associates, Inc. R5& CONVLIANTS				Sheet 30	5 of 461
Seismic Walkdow	'n Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	<u>1P42F0665B</u> Equip. Class 7. Pneumatic-Operated V	alves				
Equipment Descrip	otion Temperature Control Valve		·····			
Interaction Effect	ts		v	N	-	NI/ A
7. Are soft targets	free from impact by nearby equipment or structures?	Ľ	Y X	N	U	N/A
		F	Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	L	X			<u> </u>
		г	Y X	N	U	N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with adeq	<i>quate</i>				
	bove seismic interaction evaluations, is equipment free		Y X	N	U	
of potentially a	dverse seismic interaction effects?					
•	onditions ed for and found no other seismic conditions that could t the safety functions of the equipment?		Y X	N	- U	
Comments (Addit	ional pages may be added as necessary)				_	
	atter My and					
Evaluated by:	Eddie M. Guerra Da	ate: _	8/26/2	012	_	
	Entell					
	Brian A. Lucarelli Da	ate:	8/26/2	012	_	



Seismic Walkdown Checklist (SWC)

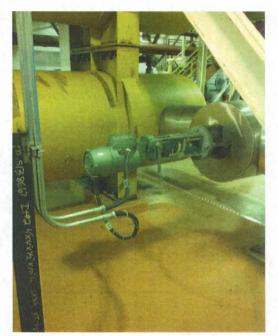
Equipment ID No. <u>1P42F0665B</u> Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Temperature Control Valve



File Name: 2-61-3-1-01.jpeg Description: Component Plate ID



File Name: 2-62-3-1-01.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P42F0665B</u> Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Temperature Control Valve



File Name: 2-63-3-1-01.jpeg Description: View of bolting detail on valve



File Name: 2-64-3-1-01.jpeg Description: Close up view of screws configuration

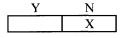
Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 308	3 of 461
Seismic Walkdown Checklist (SWC)	Status:	\odot	Ν	U
Equipment ID No. <u>1P43F005</u> 5 Equip. Class 8A. Motor-Operated Valves				
Equipment Description NCC Cntmt Supply OTBD Isol				
Location: Bldg. IB Floor El. 599				
Manufacturer, Model, Etc.				

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Small MOV on $\sim 12''$ diam pipe line identified with adequate supports.

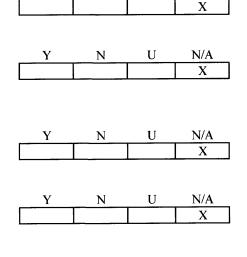


Ν

Y

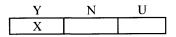
2. Is the anchorage free of bent, broken, missing or loose hardware?

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



N/A

U



	C. Rizzo Associates, Inc.			Sheet 30	9 of 461
Seismic Walkdow	n Checklist (SWC)	Status:	\odot	N	U
Equipment ID No.	<u>1P43F005</u> 5 Equip. Class 8A. Motor-Operated Valves	S			
Equipment Descri	ption NCC Cntmt Supply OTBD Isol	· · · · · · · · · · · · · · · · · · ·			-
Interaction Effect	ts			_	
7 • 6 · · ·		Y	$\frac{N}{X}$	U	N/A
Scaffold structure Judged not an adv	free from impact by nearby equipment or structures? identified near valve used as a support system for a chiller unit. erse condition due to size and apparent strength of valve. AWC a addresses the scaffolding concern for which CR 2012-12373 w				
		Y	Ν	U	N/A
	quipment, distribution systems, ceiling tiles and lighting,	X			
and masonry blo	ck walls not likely to collapse onto the equipment?	V	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	Y X	<u>N</u>		
	rigidly supported and attached conduits were found with adequ				-
		Y	N	U	1
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	X		<u>_]</u>]
Other Adverse C	onditions			_	
	ed for and found no other seismic conditions that could	Y	N	<u> </u>	1
adversely affec	t the safety functions of the equipment?	X]
Comments (Addit	tional pages may be added as necessary)			_	
	atter Mehring ?				
Evaluated by:	Eddie M. Guerra Date	:: <u>8/26/2</u>	2012	_	
	Entfl				
	Brian A. Lucarelli Date	e: <u>8/26/2</u>	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P43F0055</u> Equip. Class 8A. Motor-Operated Valves

Equipment Description

NCC Cntmt Supply OTBD Isol



File Name: 2-61-1-4-14.jpeg Description: Component Plate ID



File Name: 2-62-1-4-14.jpeg Description: General view of Component

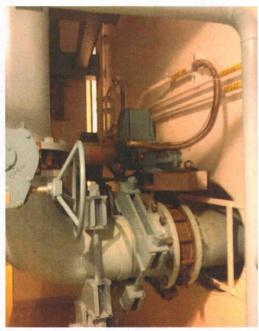


Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P43F0055</u> Equip. Class 8A. Motor-Operated Valves

Equipment Description

NCC Cntmt Supply OTBD Isol



File Name: 2-63-1-4-14.jpeg Description: Valve main line running through containment



File Name: 2-64-1-4-14.jpeg Description: View of support condition for main line

Paul C. Rizzo Associ			Sheet 312	: of 4		
			Status:	Ŷ	N	U
Seismic Walkdown Checklist (SV	WC)					
Equipment ID No. <u>1P45C000</u> 1B	Equip. Class 6.	Vertical Pumps				
Equipment Description ES	W Pump 1P45-C00011	В				
Location: Bldg. <u>EW</u>	Floor El. 58	86				
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

D

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Base plates attached to concrete pedestal with 4 - 1 1/2" diam anchor bolts.

2. Is the anchorage free of bent, broken, missing or loose hardware?

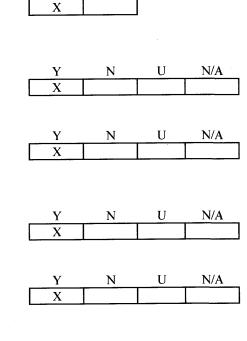
3. Is the anchorage free of corrosion that is more than mild surface oxidation?

No significant corrosion identified in attached lines or pump housing

4. Is the anchorage free of visible cracks in the concrete near the anchors?

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage confirmed per Document SQ-146, page 26 of Attachment 2.

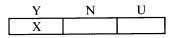
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



N

Y

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Paul C. Rizzo Associates, Inc.					Sheet 31	3 of 461
Seismic Walkdov	wn Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID No						
Equipment Descri	ESW Pump 1P45-C0001B					
Interaction Effec	ets				-	
	free from impact by nearby equipment or structures? Int identified in the area.	Ľ	Y X	N	U	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,	Г	Y X	N	U	N/A
-	ock walls not likely to collapse onto the equipment? ed in area found to be properly braced. Confirmed to be tempo nel.	rary				
			Y	N	U	N/A
	tes have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with ade	quate	X			
		-	Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	L	X		.1	
	ked for and found no other seismic conditions that could		Y	N	– U	1
adversely affe	ct the safety functions of the equipment?	L	Х	<u> </u>		ĺ
Comments (Add	itional pages may be added as necessary)				_	
	atter Mehred i					
Evaluated by:	Eddie M. Guerra D	ate: _	8/26/2	2012	_	
	Ertfill					
	Brian A. Lucarelli D	ate:	8/26/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P45C0001B</u> Equip. Class 6. Vertical Pumps

Equipment Description

ESW Pump 1P45-C0001B



File Name: 2-61-7-4-05.jpeg Description: Component Plate ID



File Name: 2-62-7-4-05.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P45C0001B</u> Equip. Class 6. Vertical Pumps

Equipment Description

ESW Pump 1P45-C0001B



File Name: 2-63-7-4-05.jpeg Description: View of attached lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 31	6 of 461
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>1P45F013</u> 0B Equip. Class 8A. Motor-Operated Valves				
Equipment Description ESW MOV 1P45-F0130B				
Location: Bldg. <u>EW</u> Floor El. <u>586</u>				
Manufacturer, Model, Etc.				
This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe Anchorage	ults of judgm			
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Valve mounted on ~24" diam pipe line. Pipe is rigidly supported in the vicinity of valve. 	Y	N X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X

N/A

Х

U

U

Ν

Ν

Y

Y

Χ

- 5. Is the anchorage configuration consistent with plant documentation?(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 31	7 of 461
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>1P45F013</u> 0B Equip. Class 8A. Motor-Operated Valves				
Equipment Description ESW MOV 1P45-F0130B	······································			
Interaction Effects				
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y	N	U	N/A
and masonry block walls not likely to collapse onto the equipment? Overhead pipes found rigidly supported.				
9. Do attached lines have adequate flexibility to avoid damage?	Y X	N	U	N/A
Attached piping is rigidly supported and attached conduits were found with adequate	Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	X			
Other Adverse Conditions			_	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y	N	U	
Comments (Additional pages may be added as necessary)			_	
tate Mana V				
Evaluated by: Eddie M. Guerra Date:	8/26/2	012	_	
Entfl				

Brian A. Lucarelli

Date:

8/26/2012

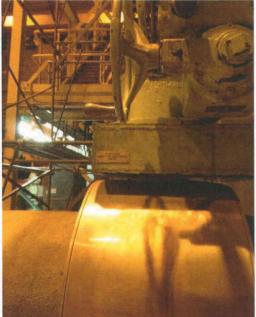


Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P45F0130B</u> Equip. Class 8A. Motor-Operated Valves

Equipment Description

ESW MOV 1P45-F0130B



File Name: 2-61-4-1-05.jpeg Description: Component Plate ID



File Name: 2-62-4-1-05.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 31	9 of 461
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>1P45F0660</u> Equip. Class 0D. Other-Check Valve or M	Ianual Valve			
Equipment Description Fire Protection SYS Backup From ESW	····		· · · · ·	
Location: Bldg. <u>EW</u> Floor El. <u>586</u>				
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting of	results of judgm			
Anchorage	Y	N	-	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Valve mounted on 4" main pipe line. The 4" line is rigidly supported in the vicinity of the valve. 		X]	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	N	U	N/A X
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configuration consistent with plant documentation?	Y	N	U	N/A X
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)				
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U 	

	1 C. Rizzo Associates, Inc. FERSA CONSULTANTS				Sheet 32	0 of 461
Seismic Walkdo	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	b. <u>1P45F0660</u> Equip. Class 0D. Other-Check Val	lve or Ma	nual Valve			
Equipment Descr	iption Fire Protection SYS Backup From ESW		·····			
Interaction Effe	cts		V	N		NJ/A
7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	N	<u> </u>	N/A
-	raction found in the area.					L
			Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?			X			
and mason y or	ook wans not neery to conapse onto the equipment?		Y	N	U	N/A
	nes have adequate flexibility to avoid damage?		X			
Attached piping i	s rigidly supported and attached conduits were found with	adequate				
			Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
Other Adverse G	Conditions				_	
	ked for and found no other seismic conditions that could		Y	N	<u> </u>	1
adversely affe	ct the safety functions of the equipment?		X		1	
Comments (Add	itional pages may be added as necessary)			<u></u>	-	
	atter Mahral V		,			
Evaluated by:	Eddie M. Guerra	_Date:	8/26/2	012	_	
	END					
	Brian A. Lucarelli	Date	8/26/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P45F0660</u> Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

Fire Protection SYS Backup From ESW



File Name: 2-61-5-4-05.jpeg Description: Component Plate ID



File Name: 2-62-5-4-05.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P45F0660</u> Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

Fire Protection SYS Backup From ESW



File Name: 2-63-5-4-05.jpeg Description: View of pipe line supports

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			Sheet 32	3 of 461
Seismic Walkdown Checklist (SWC)	Status:	Ŷ	N	U
Equipment ID No. <u>1P57A0003A</u> Equip. Class 21. Tanks and Heat Exchangers				
Equipment Description Storage Air Tank				
Location: Bldg. FH Floor El. 620				
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the resu findings. Additional space is provided at the end of this checklist for documenting other	lts of judgm			
Anchorage	Y	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 14 - 1" diam anchor bolts identified during inspection. No degradation identified. 	X]	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation?	Y X	N	U	N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage configuration confirmed by Drawing 415-0107, Detail "A".				
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	<u>N</u>	U	

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS					Sheet 324	4 of 461
Seismic Walkdow	yn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No.	<u>1P57A000</u> 3A Equip. Class 21. Tanks and Heat Exchange	angers				
Equipment Descri	ption Storage Air Tank					
Interaction Effect	ts		V	N		N 1/A
7 Are soft targets	free from impact by nearby equipment or structures?	F	$\frac{Y}{X}$	N	<u>U</u>	<u>N/A</u>
	ied in area. Judged not a seismic concern.					
			Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting,		X			
and masonry blo	ck walls not likely to collapse onto the equipment?					
		_	Y	N	U	N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with adeq	uate	X	<u></u>		
			Y	Ν	U	
	bove seismic interaction evaluations, is equipment free		X			
Other Adverse C	dverse seismic interaction effects?				_	
	ed for and found no other seismic conditions that could		Y	Ν	U	
	t the safety functions of the equipment?	Ľ	X			
Comments (Addit	tional pages may be added as necessary)				_	
Evaluated by:	Eddie M. Guerra Da	te:	8/26/2	012		
	Entfl					
	Brian A. Lucarelli Da	te: _	8/26/2	012	_	



Status: 1 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1P57A0003A

Storage Air Tank

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description



File Name: 2-61-2-4-17.jpeg Description: Component Plate ID



File Name: 2-62-2-4-17.jpeg Description: General view of Component

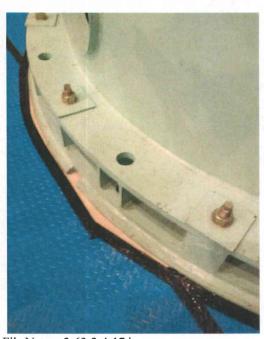


Seismic Walkdown Checklist (SWC)

Equipment ID No. 1P57A0003A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Storage Air Tank



File Name: 2-63-2-4-17.jpeg Description: General view of anchorage



File Name: 2-64-2-4-17.jpeg Description: View of attached line

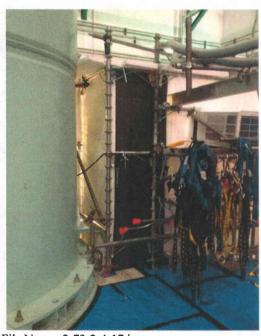


Seismic Walkdown Checklist (SWC)

Equipment ID No. 1P57A0003A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Storage Air Tank



File Name: 2-73-2-4-17.jpeg Description: Scaffolding located in the area

ENGINFERS & CONSULTANTS					
Seismic Walkdown Checklist (SWC)		Status:	Ŷ	Ν	U
Equipment ID No. <u>1P57F001</u> 5A Equip. Class	8A. Motor-Operated Valves				
Equipment Description Motor Valve					
Location: Bldg. <u>IB</u> Floor El.	599				
Manufacturer, Model, Etc.					

Instructions for Completing Checklist

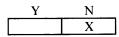
Paul C. Rizzo Associates, Inc.

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

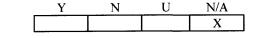
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

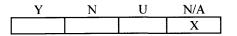
Heavy Valve mounted on 1 1/2" diam pipe line. Judged not a concern since MOV is supported independently and restrained laterally/vertically. Pipe line is adequately supported before and after valve.

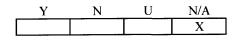


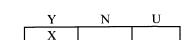
Y	Ν	U	N/A
			X

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oxidation?

3. Is the anchorage free of corrosion that is more than mild surface

2. Is the anchorage free of bent, broken, missing or loose hardware?

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS					Sheet 32	9 of 461
Seismic Walkdov	wn Checklist (SWC)		Status:	Ŷ	Ν	U
Equipment ID No	b. <u>1P57F001</u> 5A Equip. Class 8A. Motor-Operated Va	alves				
Equipment Descr	iption Motor Valve					
Interaction Effe	ets		V	N		N 1/ A
7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
			Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X			
			Y	N	<u> </u>	N/A
	nes have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with an	lequate	X			
10. Based on the	above seismic interaction evaluations, is equipment free		Y X	N	U	
	adverse seismic interaction effects?		L			
Other Adverse (Conditions ked for and found no other seismic conditions that could	<u> </u>	Y	N		
	ct the safety functions of the equipment?					
Comments (Add	itional pages may be added as necessary)	<u></u>	<u> </u>		_	
	atter Mahma 1					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012		
	Entell					
	Brian A. Lucarelli	Date:	8/26/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P57F0015A</u> Equip. Class 8A. Motor-Operated Valves

Motor Valve

Equipment Description



File Name: 2-61-2-4-14.jpeg Description: Component Plate ID



File Name: 2-62-2-4-14.jpeg Description: General view of Component

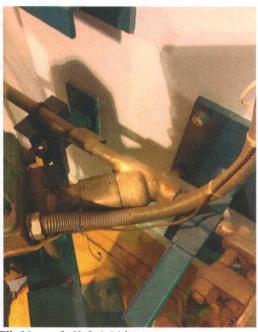


Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P57F0015A</u> Equip. Class 8A. Motor-Operated Valves

Equipment Description

Motor Valve



File Name: 2-63-2-4-14.jpeg Description: View of attached line



File Name: 2-64-2-4-14.jpeg Description: View of wall support HSS members

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS						Sheet 332	2 of 4
Seismic Walkdown Ch	ecklist (SWC)		Status:	Ŷ	N	U
Equipment ID No. <u>1P</u>	<u>57F001</u> 5B	Equip. Class	8A. Motor-Operated Valves				
Equipment Description	Motor	Valve					
Location: Bldg. A	<u>x</u>	Floor El.	620				
Manufacturer, Model, E	etc.						

Instructions for Completing Checklist

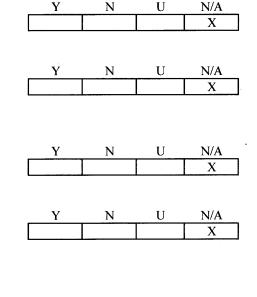
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

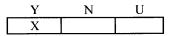
1. Is the anchorage configuration verification required (i.e., is the	e item one
of the 50% of SWEL items requiring such verification)?	
Small MOV well supported at the valve itself.	

Ν X

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Sheet 332 of 461



Pau ENCIN	1 C. Rizzo Associates, Inc. teers & consultants				Sheet 33	3 of 461
Seismic Walkdo	wn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No	b. <u>1P57F001</u> 5B Equip. Class 8A. Motor-Operated V	alves				
Equipment Descr	iption Motor Valve					
Interaction Effe	cts				_	
7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
8 Are overhead a	auinment distribution systems, spiling tiles and lighting		Y	N	U	N/A
	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?				<u> </u>	L
	nes have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with an	_	Y X	N	U	N/A
flexibility. 10. Based on the	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	-	Y X	N	U	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	U	
Comments (Add	itional pages may be added as necessary)				_	
	- detter Minie 19					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	2012		
	Enfl					
	Brian A. Lucarelli	Date:	8/26/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P57F0015B</u> Equip. Class 8A. Motor-Operated Valves

Equipment Description

Motor Valve



File Name: 2-61-1-4-15.jpeg Description: Component Plate ID



File Name: 2-62-1-4-15.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1P57F0015B</u> Equip. Class 8A. Motor-Operated Valves

Equipment Description

Motor Valve



File Name: 2-63-1-4-15.jpeg Description: View of attached line



Seismic Walkdown Checkl	ist (SWC)	1		Status:	Y	\mathbb{N}	U
	-		1 Transformore				
Equipment ID No. 1R22S	0000-E04	Equip. Class	4. ITalisiofficis				
Equipment Description	Transf	ormer EHF-1-C					
Location: Bldg. <u>CC</u>		Floor El.	<u>620</u>				
Manufacturer, Model, Etc.							
SWEL. The space below eac	o documer h of the fo	nt the results of ollowing question	the Seismic Walkdown of an ite ons may be used to record the re is checklist for documenting oth	sults of judgm			
Anchorage				Y	N		
1. Is the anchorage configuration	ation verifi	ication required	1 (i.e., is the item one				
of the 50% of SWEL item Transformer EHF-1-C inspe with 10 anchors, 5 at each st adequate bracing.	cted durin	g walkdown. C	abinet anchored to concrete pac	1			
				Y	N	U	N/A
2. Is the anchorage free of be	ent, broker	n, missing or lo	ose hardware?	X			
				V	N	U	N/A
3. Is the anchorage free of co oxidation?	orrosion th	at is more than	mild surface	Y X	N	0	
Inside of cabinet inspected a	nd no cori	rosion was ider	ntified.				
				Y	<u>N</u>	U	N/A
4. Is the anchorage free of vi	sible cracl	ks in the concre	ete near the anchors?	X			
5 1.46	<i></i>			Y	<u>N</u>	U	N/A
5. Is the anchorage configura (Note: This question only which an anchorage configuration co	applies if figuration	the item is one verification is r	of the 50% for required.)	X	1		L
				Y	<u>N</u>	U	
6. Based on the above anchor potentially adverse seism	-		nchorage free of	X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Attached piping is rigidly supported and attached conduits were found with adequate 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary)	Pau ENGIN	1 C. Rizzo Associates, Inc. HERS & CONSULTANTS			Sheet 33	7 of 461
Equipment Description Transformer EHP-1-C Interaction Effects Y N 7. Are soft targets free from impact by nearby equipment or structures? X X A storage locker is potential interaction hazard for switch gear. CR-2012-12222 X X issued to resolve this interaction concern. Y N U N/A 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A 9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U Other Adverse Conditions Y N U X I 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U Comments (Additional pages may be added as necessary) I III. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? III. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? IIII. Have you looked for and found pot	Seismic Walkdo	wn Checklist (SWC)	Status:	Y	Ŋ	U
Interaction Effects Y N U N/A 7. Are soft targets free from impact by nearby equipment or structures? X X X X 4 storage locker is potential interaction hazard for switch gear. CR-2012-12222 X	Equipment ID No	b. <u>1R22S000</u> 6-E04 Equip. Class 4. Transformers				
Y N U N/A A storage locker is potential interaction hazard for switch gear. CR-2012-12222 X X Sasued to resolve this interaction concern. Y N U N/A 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A 9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A 10. Based on the above seismic interaction effects? Y N U X I 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U X Comments (Additional pages may be added as necessary) I I 8/26/2012 I I III. Based by: Eddie M. Guerra Date: 8/26/2012 I III. III. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? III. Have you looked for and found no other seismic conditions that could III. Eddie M. Guerra Date: 8/26/2012 IIII. IIII. Have you looked for and found have the added as necessary) IIII. Have you looked for and found have the added as necessary) IIII. Have you looked fo	Equipment Descr	iption Transformer EHF-1-C				
7. Are soft targets free from impact by nearby equipment or structures? X A storage locker is potential interaction hazard for switch gear. CR-2012-12222 X issued to resolve this interaction concern. Y N U N/A 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A 9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U Comments (Additional pages may be added as necessary) Image: 8/26/2012 8/26/2012 Image: 8/26/2012	Interaction Effe	cts			_	
A storage locker is potential interaction hazard for switch gear. CR-2012-12222 issued to resolve this interaction concern. 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? 4. Attached piping is rigidly supported and attached conduits were found with adequate 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) Evaluated by: Eddie M. Guerra Date: 8/26/2012	7 Are soft target	s free from impact by nearby equipment or structures?	Y			N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? 4ttached piping is rigidly supported and attached conduits were found with adequate 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary)	A storage locker	is potential interaction hazard for switch gear. CR-2012-12222	L L.	<u> </u>		
and masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Attached piping is rigidly supported and attached conduits were found with adequate Y N 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N Comments (Additional pages may be added as necessary) Image: Big: Big: Big: Big: Big: Big: Big: Big				N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage? Attached piping is rigidly supported and attached conduits were found with adequate 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary)						
Attached piping is rigidly supported and attached conduits were found with adequate Y N U 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U Other Adverse Conditions Y N U X III. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U Comments (Additional pages may be added as necessary) III. Have you looked for M. Guerra Date: 8/26/2012			Y	N	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? X Other Adverse Conditions X X 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N Comments (Additional pages may be added as necessary) X X X Evaluated by: Eddie M. Guerra Date: 8/26/2012			te			X
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? X X X Comments (Additional pages may be added as necessary) Hote Multiple Evaluated by: Eddie M. Guerra Date: 8/26/2012			Y		U	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U X X X X X X X Comments (Additional pages may be added as necessary) Image: State of the safety function of the equipment? Image: State of the safety function of the equipment? Image: State of the safety function of the equipment? Evaluated by: Eddie M. Guerra Date: 8/26/2012 Image: State of the equipment of the	of potentially	adverse seismic interaction effects?				
adversely affect the safety functions of the equipment? X Comments (Additional pages may be added as necessary) Itation White Evaluated by: Eddie M. Guerra Date: 8/26/2012			v	N		
Evaluated by: <u>Eddie M. Guerra</u> Date: <u>8/26/2012</u>						
Evaluated by: Eddie M. Guerra Date: 8/26/2012	Comments (Add	itional pages may be added as necessary)			_	
Eufli		attes I China I'				
Brian A. Lucarelli Date: 8/26/2012	Evaluated by:	Eddie M. Guerra Date:	8/26/2	012	_	
Brian A. Lucarelli Date: 8/26/2012		Entfl				
		Brian A. Lucarelli Date:	<u> </u>	012	_	



Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R22S0006-E04 Equip. Class 4. Transformers

Equipment Description

Transformer EHF-1-C



File Name: 2-61-1-4-06.jpeg Description: Component Plate ID



File Name: 2-62-1-4-06.jpeg Description: General view of component



Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R22S000</u>6-E04 Equip. Class 4. Transformers

Equipment Description

Transformer EHF-1-C



File Name: 2-63-1-4-06.jpeg Description: View of transformer coils inside cabinet



File Name: 2-64-1-4-06.jpeg Description: View of bracing detail inside cabinet

ENGINEERS &	CONSULTANTS						
Seismic Walkdown (Checklist (SWC)	1		Status:	0	Ν	U
	1 <u>R22S000</u> 7	Equip. Class	3. Medium Voltage Switchgear				
Equipment Descriptio	n <u>Bus Eł</u>	411					
Location: Bldg.	CC	Floor El.	620				
Manufacturer, Model.	Etc.						

Instructions for Completing Checklist

Paul C. Rizzo Associates, Inc.

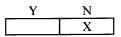
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

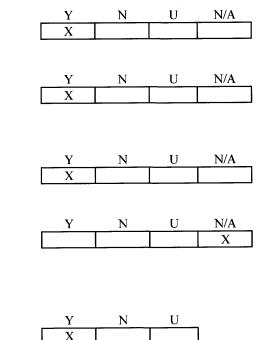
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

18 sections identified with 1 1/4" welds at each corner for each section. 1" diam plug welds (2 of them) at back of each section.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Sheet 340 of 461



	C. Rizzo Associates, Inc.			Sheet 34	1 of 461
Seismic Walkdov	wn Checklist (SWC)	Status:	Ŵ	N	U
Equipment ID No	Equip. Class 3. Medium Voltage Switch	gear			
Equipment Descr	iption Bus EH11				
Interaction Effec	cts	Y	N	– U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?	X	N		
8. Are overhead e	Y X	<u>N</u>	<u> </u>	N/A	
and masonry bl			1	LJ	
		Y	N	U	N/A
	tes have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with adequ	ate X			
indened piping .		Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	X			
Other Adverse C 11. Have you loo	Conditions ked for and found no other seismic conditions that could	Y	N	– U	
adversely affe	ct the safety functions of the equipment?	X			
Comments (Add	itional pages may be added as necessary)			_	
	atter Mehring i				
Evaluated by:	Eddie M. Guerra Date	: <u>8/26/2</u>	012		
	Entfll				
	Brian A. Lucarelli Date	. 8/26/2	012		

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Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R22S0007</u> Equip. Class 3. Medium Voltage Switchgear

Bus EH11

Equipment Description



File Name: 2-61-9-4-06.jpeg Description: Component Plate ID



File Name: 2-62-9-4-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R22S0007</u> Equip. Class 3. Medium Voltage Switchgear

Bus EH11

Equipment Description

File Name: 2-63-9-4-06.jpeg Description: View of top conduits

DCS	Paul	c.	Rizzo	Associates,	Inc
	ENGINE	ERS &	CONSUL	TANTS	

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Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R22S00</u>	009 Equip. Class	3. Medium Voltage Switchgear	
Equipment Description	Bus EH13		
Location: Bldg. <u>CC</u>	Floor El.	<u>620</u>	
Manufacturer, Model, Etc.			

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

oxidation?

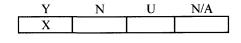
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

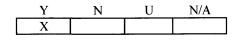
5 sections identified with 1 1/4" welds at each corner for each section. 1" diam plug welds (2 of them) at back of each section. Design basis drawing was verified to ensure no welds at center of switch gear are required.

2. Is the anchorage free of bent, broken, missing or loose hardware?

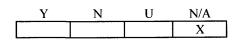
3. Is the anchorage free of corrosion that is more than mild surface







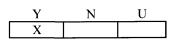
Y N U N/A



 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

4. Is the anchorage free of visible cracks in the concrete near the anchors?

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



DCS	Paul C. Rizzo Associates,	Inc.
_	ENGINEERS & CONSULTANTS	

6. 		Status:	(Y)	Ν	U
Seismic waikdov	vn Checklist (SWC)				
Equipment ID No.	. <u>1R22S0009</u> Equip. Class 3. Medium Voltage Switchgear				
Equipment Descri	ption Bus EH13			<u> </u>	
Interaction Effec	ts				
-		<u>Y</u>	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X			
		Y	N	U	N/A
8. Are overhead e	X				
and masonry bic	ock walls not likely to collapse onto the equipment?				
		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	X			
Attached piping is	rigidly supported and attached conduits were found with adequate				
		Y	N	U	
10. Based on the a	bove seismic interaction evaluations, is equipment free	X		0	
	dverse seismic interaction effects?				
Other Adverse C	onditions ed for and found no other seismic conditions that could	Y	N	U	
	t the safety functions of the equipment?	$\frac{1}{X}$	19	<u> </u>	
2					• •
Comments (Addi	tional pages may be added as necessary)				
	toto Myma i				
Evaluated by:	Eddie M. Guerra Date:	8/26/2	012		
	Entfl				
	Brian A. Lucarelli Date:	8/26/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R22S0009</u> Equip. Class 3. Medium Voltage Switchgear

Bus EH13

Equipment Description



File Name: 2-61-4-4-06.jpeg Description: Component Plate ID



File Name: 2-62-4-4-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R22S0009 Equip. Class 3. Medium Voltage Switchgear

Bus EH13

Equipment Description



File Name: 2-63-4-4-06.jpeg Description: View of attached lines



File Name: 2-64-4-06.jpeg Description: Base detail inside component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 348	3 of 461
Seismic Walkdown Checklist (SWC)		Status:	(N	U
	Class 2. Low Voltage Switchgear				
Equipment Description 480 V Bus EF-	1-D (1R23-S0012)				
Location: Bldg. <u>CC</u> Floor E	620 <u>620</u>				
Manufacturer, Model, Etc.					

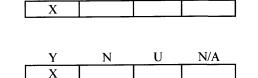
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Cabinet composed of 3 sections. Each section is welded with 1 1/2" weld at each corner to base.

2. Is the anchorage free of bent, broken, missing or loose hardware?



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N/A

N/A

N/A

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Y

Y

Y

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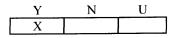
Y

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Exterior of cabinet was found in good condition.

4. Is the anchorage free of visible cracks in the concrete near the anchors?

- Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



	C. Rizzo Associates, Inc. RS& CONSULTANTS				Sheet 34	9 of 461
Seismic Walkdow	n Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	1R23S0012 Equip. Class 2. Low Voltage Switch	vear	~			
-4	<u> </u>	Betti				
Equipment Descrip	480 V Bus EF-1-D (1R23-S0012)					
Interaction Effect	S	<u>a</u> 't ' t ' t			-	
		_	Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,	Г	$\frac{Y}{X}$	N	U	N/A
and masonry blo	ck walls not likely to collapse onto the equipment?	L				
Verified that top tr resolution.	olley is parked at center of rail with the hook restrained per	IPEEE				
			Y	N	U	N/A
	s have adequate flexibility to avoid damage?		X			
Attached piping is	rigidly supported and attached conduits were found with ad	lequate				
			Y	N	U	
	pove seismic interaction evaluations, is equipment free lverse seismic interaction effects?		X			
Other Adverse Co	anditions				-	
11. Have you looke	ed for and found no other seismic conditions that could		Y	N	U	
adversely affect	the safety functions of the equipment?		X			
Comments (Additi	ional pages may be added as necessary)				-	
	- deter Mahane 1					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	-	
	Erfli					
	Brian A. Lucarelli	Date:	8/26/2	012	-	



Seismic Walkdown Checklist (SWC)

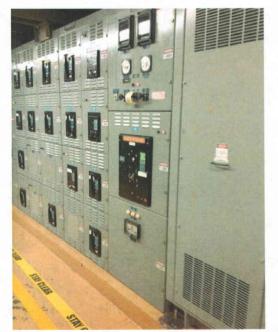
Equipment ID No. 1R23S0012 Equip. Class 2. Low Voltage Switchgear

Equipment Description

480 V Bus EF-1-D (1R23-S0012)



File Name: 2-61-2-4-06.jpeg Description: Component Plate ID



File Name: 2-62-2-4-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R23S0012</u> Equip. Class 2. Low Voltage Switchgear

Equipment Description

480 V Bus EF-1-D (1R23-S0012)



File Name: 2-63-2-4-06.jpeg Description: View of MCC concrete pad



File Name: 2-64-2-4-06.jpeg Description: View of attached top lines

Paul C. Rizzo A ENGINEERS & CONSULTAN				Sheet 352 o
Seismic Walkdown Checklis	st (SWC)	Status:	Ŷ	Ν
Equipment ID No. <u>1R24S0</u>	028 Equip. Class 1. Motor Control Centers	s		
Equipment Description	480 V MCC EF1D08 (1R24S0028)	······································		
Location: Bldg. <u>CC</u>	Floor El620			
Manufacturer, Model, Etc.				

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

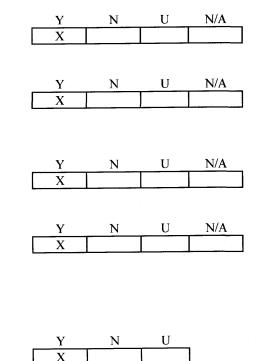
Cabinet composed of 5 sections. Parts of the cabinet were found to be welded directly to embedded steel member while other parts had shims welded to cabinet but no connection was identified between shims and embedment. This configuration was addressed adequately in calculation SQ-0178 for ECP 02-0184 rev 0. No further action was required.

2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface

Inside of cabinet inspected and no corrosion identified.

Concrete pad found in adequate condition.



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Sheet 352 of 461

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5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for

4. Is the anchorage free of visible cracks in the concrete near the anchors?

which an anchorage configuration verification is required.) Document "Class 1E MCC Seismic Qualification" confirms the anchorage configuration.

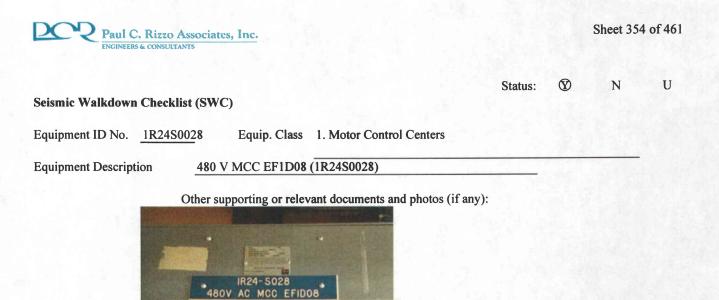
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

	. Rizzo Associates, Inc.				Sheet 353	3 of 461
Seismic Walkdown	Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	<u>1R24S0028</u> Equip. Class 1. Motor Control Center	ers				
Equipment Descript	ion 480 V MCC EF1D08 (1R24S0028)				_	
Interaction Effects						57/4
7. Are soft targets fr	ee from impact by nearby equipment or structures?	[Y X	<u>N</u>	U	N/A
8. Are overhead equ	ipment, distribution systems, ceiling tiles and lighting,	[Y X	N	U	N/A
-	k walls not likely to collapse onto the equipment?	ľ			<u></u>	
	have adequate flexibility to avoid damage?		Y X	N	U	N/A
Attached piping is r	igidly supported and attached conduits were found with a	dequate				
	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?		Y X	N	U	
•	d for and found no other seismic conditions that could		Y X	N	- 	
adversely affect	the safety functions of the equipment?					
Comments (Additio	onal pages may be added as necessary)				_	
	the Mana I					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	_	
	Ertfl					

Brian A. Lucarelli

Date:

8/26/2012



File Name: 2-61-3-4-06.jpeg Description: Component Plate ID



File Name: 2-62-3-4-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

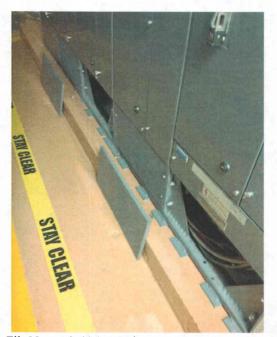
Equipment ID No. 1R24S0028 Equip. Class 1. Motor Control Centers

Equipment Description

480 V MCC EF1D08 (1R24S0028)



File Name: 2-63-3-4-06.jpeg Description: View of center weld detail at base



File Name: 2-64-3-4-06.jpeg Description: Base connection detail of component

	Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS					Sheet 356 of 461		
Seismic Walkdown	Checklist (SW)	C)		Status:	Ŷ	N	U	
Equipment ID No.	<u>1R24S003</u> 2	Equip. Class	1. Motor Control Centers					
Equipment Descript	ion <u>480 '</u>	V MCC EF1C12						
Location: Bldg.	EW	Floor El.	586					
Manufacturer, Mode	el, Etc.							
SWEL. The space be	be used to docum elow each of the	ent the results of following question	the Seismic Walkdown of an iten ons may be used to record the resu is checklist for documenting other	ilts of judgm				
Anchorage				Υ.	NT			
of the 50% of SW	'EL items requiring the second	ing such verificat	l (i.e., is the item one ion)? Ided with 3" stitch welds spaced	Y X	<u>N</u>]		

2. Is the anchorage free of bent, broken, missing or loose hardware?

.

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- U N/A Y N Х

Y

X

Y

X

Y

X

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Ν

Ν

N/A

N/A

N/A

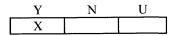
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5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Document "Class 1E MCC Seismic Qualification" confirms the anchorage configuration.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



	C. Rizzo Associates, Inc.				Sheet 35	7 of 461
Seismic Walkdow	n Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	<u>1R24S003</u> 2 Equip. Class 1. Motor Control Center	ers				
Equipment Descrip	tion 480 V MCC EF1C12	<u></u>	····			
Interaction Effect	S		Ň	N	-	N 1/A
7. Are soft targets : No loose equipment	free from impact by nearby equipment or structures? It locate in area.		Y X	<u>N</u>	U	N/A
	uipment, distribution systems, ceiling tiles and lighting,		Y	N	U	N/A
and masonry blo Hanging lights fou	ck walls not likely to collapse onto the equipment? nd on top of MCC. Fluorescent lights found to be twist-on to not a concern since they are out of the zone of influence.	type			I	
	s have adequate flexibility to avoid damage?		Y X	N	U	N/A
Attached piping is	rigidly supported and attached conduits were found with a	dequate	Y	N	U	
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X	<u></u>		
Other Adverse Co	onditions			<u> </u>	_	
11. Have you look	ed for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	U]
Comments (Addit	ional pages may be added as necessary)				_	
	toto Winner V					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	_	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	012	-	



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R24S0032</u> Equip. Class 1. Motor Control Centers

Equipment Description

480 V MCC EF1C12



File Name: 2-61-1-4-05.jpeg Description: Component Plate ID



File Name: 2-62-1-4-05.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R24S0032</u> Equip. Class 1. Motor Control Centers

Equipment Description

480 V MCC EF1C12



File Name: 2-64-1-4-05.jpeg Description: Close up view of component concrete pad

ENGINEER	S & CONSULTANTS					
Seismic Walkdown) Checklist (S	WC)		Status:	\heartsuit	N
Equipment ID No.	<u>1R25S001</u> 4	Equip. Class	14. Distribution Panels			
Equipment Descript	ion <u>Ir</u>	strument Panel EB-	1-A1			
Location: Bldg.	CC	Floor El.	620			
Manufacturer. Mode	el. Etc.					

Paul C. Rizzo Associates, Inc.

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Inside E71B07 MCC composed of 19 sections. Completely mounted on 3/8" shim plates that are plug welded to perimeter concrete pad angles. Only last section is directly welded at back of cabinet. This configuration was addressed adequately in calculation SQ-0178 for ECP 02-0184 rev 0. No further action was required.

Y N X

Y

2. Is the anchorage free of bent, broken, missing or loose hardware?

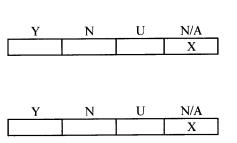
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



N/A

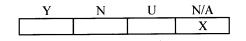
Х

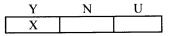
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Ν

U





Paul C ENCINEE	C. Rizzo Associates, Inc. Rs & consultants				Sheet 36	1 of 461
Seismic Walkdow	n Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	<u>1R25S001</u> 4 Equip. Class 14. Distribution Panels	;				
Equipment Descrip	tion Instrument Panel EB-1-A1	·····			<u> </u>	
Interaction Effects	5		Y	N	-	21/4
7. Are soft targets f	7. Are soft targets free from impact by nearby equipment or structures?			<u>N</u>	U	N/A
Hanging lights in th	he area noticed to be twist-type tubes. Judged not a concern ey are located around 4ft away of MCC.	n for	X		<u></u> _	J
9 Ano overhead an	and the state of the		Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?	L	X		11	
9. Do attached lines	s have adequate flexibility to avoid damage?	· _	Y X	N	U	N/A
	igidly supported and attached conduits were found with ad	lequate				
10 Decod on the sh			Y	N	U	
	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?	L	X		II	
Other Adverse Co	nditions				-	
	d for and found no other seismic conditions that could the safety functions of the equipment?	[Y X	N		
-	····· · · · · · · · · · · · · · · · ·	L		· · · ·		
Comments (Addition	onal pages may be added as necessary)				-	
	The Million IV					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012		
	En ALA					
	Brian A. Lucarelli I	Date:	8/26/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0014</u> Equip. Class 14. Distribution Panels

Equipment Description

Instrument Panel EB-1-A1



File Name: 2-61-12-4-06.jpeg Description: Component Plate ID



File Name: 2-62-12-4-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0014</u> Equip. Class 14. Distribution Panels

Equipment Description

Instrument Panel EB-1-A1



File Name: 2-63-12-4-06.jpeg Description: View of base anchorage detail



File Name: 2-64-12-4-06.jpeg Description: View of top attached lines

	C. Rízzo Associato	es, Inc.				Sheet 364	4 of 461
~		~		Status:	(N	U
Seismic Walkdown	Checklist (SW	C)					
Equipment ID No.	<u>1R25S001</u> 6	Equip. Class	s 14. Distribution Panels				
Equipment Descript	ion <u>Distr</u>	ibution Panel E	EK-1-A1				
Location: Bldg.	CC	Floor El.	620				
Manufacturer, Mode	el, Etc.						

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

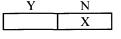
oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

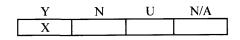
1 Section in a 19-section MCC (1R24-S018). 7 sections of this line up are on 3/8" shims. This configuration was addressed adequately in calculation SQ-0178 for ECP 02-0184 rev 0. No further action was required.

2. Is the anchorage free of bent, broken, missing or loose hardware?

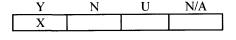
3. Is the anchorage free of corrosion that is more than mild surface

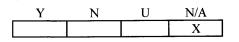


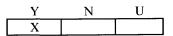
Y	Ν	U	N/A
X			



- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?







	C. Rizzo Associates, Inc. R5 & CONSULTANTS				Sheet 36	5 of 461
Seismic Walkdow	n Checklist (SWC)		Status:		N	U
Equipment ID No.	<u>1R25S0016</u> Equip. Class 14. Distribution Panels					
Equipment Descrip	Distribution Panel EK-1-A1					
Interaction Effect	S		V	NI	-
7. Are soft targets	free from impact by nearby equipment or structures?	[Y X	N		N/A
	uipment, distribution systems, ceiling tiles and lighting,	[Y X	N	U	N/A
and masonry blo	ck walls not likely to collapse onto the equipment?		Y	N	U	N/A
	s have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with ad	[leauate	X			
	pove seismic interaction evaluations, is equipment free	[Y X	N	U	l
	lverse seismic interaction effects?					
Other Adverse Co 11. Have you look	onditions ed for and found no other seismic conditions that could		Y	N	- U	
adversely affect	the safety functions of the equipment?	[X			
Comments (Addit	ional pages may be added as necessary)				_	
	the My hand i					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	_	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0016</u> Equip. Class 14. Distribution Panels

Equipment Description

Distribution Panel EK-1-A1



File Name: 2-61-8-4-06.jpeg Description: Component Plate ID



File Name: 2-62-8-4-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

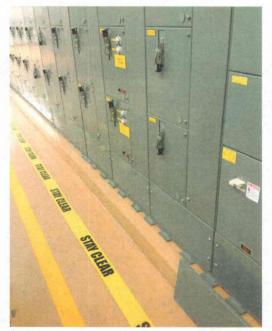
Equipment ID No. 1R25S0016 Equip. Class 14. Distribution Panels

Equipment Description

Distribution Panel EK-1-A1



File Name: 2-63-8-4-06.jpeg Description: Inside view of component



File Name: 2-64-8-4-06.jpeg Description: Base connection detail of component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 368	3 of 46
Seismic Walkdown Checklist (SWC)	Status:	Ŷ	N	U
Equipment ID No. <u>1R25S0018</u> Equip. Class 14. Distribution Panels				
Equipment Description Instrument Panel EB-1-B1		<u>.</u>		
Location: Bldg. <u>CC</u> Floor El. <u>620</u>				
Manufacturer, Model, Etc.				

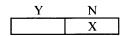
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

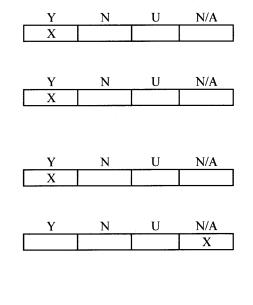
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

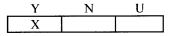
19 sections MCC. Each section welded to perimeter concrete pad angles with at least 3 - 2 1/2" fillet weld of 1/4" throat. First section is only on 3/8" shims that are plug welded to perimeter angle. This configuration was addressed adequately in calculation SQ-0178 for ECP 02-0184 rev 0. No further action was required. Component located inside MCC EF1D07.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

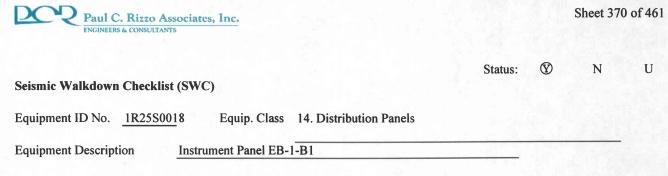


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Paul ENGINE	Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 36	9 of 461
Seismic Walkdow	/n Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	<u>1R25S0018</u> Equip. Class 14. Distribution Pane	ls				
Equipment Descri	ption Instrument Panel EB-1-B1					
Interaction Effect	ts				-	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
9 Are overhood o			Y X	N	U	N/A
	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?					
9 Do attached line	es have adequate flexibility to avoid damage?		Y	N	U	N/A
	rigidly supported and attached conduits were found with a	adequate				
	bove seismic interaction evaluations, is equipment free		Y X	N	U	
of potentially a	dverse seismic interaction effects?					
Other Adverse C						
	ed for and found no other seismic conditions that could t the safety functions of the equipment?		Y X	N	U	
Comments (Addit	ional pages may be added as necessary)					
	the My and v					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012		
	Entfl					
	Brian A. Lucarelli	Date:	8/26/20	012		





File Name: 2-61-5-4-22.jpeg Description: Component Plate ID



File Name: 2-62-5-4-22.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0018</u> Equip. Class 14. Distribution Panels

Equipment Description

Instrument Panel EB-1-B1



File Name: 2-63-5-4-22.jpeg Description: View of base anchorage detail



File Name: 2-64-5-4-22.jpeg Description: View of top attached lines



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0018</u> Equip. Class 14. Distribution Panels

Equipment Description

Instrument Panel EB-1-B1



File Name: 2-73-5-4-22.jpeg Description: View of side panel connection

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 373	3 of 46
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>1R25S0020</u> Equip. Class 14. Distribution Panels				
Equipment Description Distribution Panel EK-1-B1				
Location: Bldg. <u>CC</u> Floor El. <u>620</u>				
Manufacturer, Model, Etc.				

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

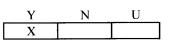
In-line with 14 section MCC EF1C07. 14 section MCC with combination of direct weld to perimeter concrete pad angles and plug-welded 3/8" shims configuration is used for anchorage. This configuration was addressed adequately in calculation SQ-0178 for ECP 02-0184 rev 0. No further action was required.

Y	Ν
	X

Sheet 373 of 461

	Y	Ν	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
	Y	Ν	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface	X			
oxidation?				
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
	Y	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation?				X
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)				

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Paul ENGINE	Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 37	4 of 461
	n Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No.	1R25S0020 Equip. Class 14. Distribution Pane	els				
Equipment Descrip	Distribution Panel EK-1-B1					
Interaction Effect	is a second s					,
7. Are soft targets	free from impact by nearby equipment or structures?		Y	N		N/A
					- I	
8 Are overhead ec	uipment, distribution systems, ceiling tiles and lighting,		Y X	N	<u> </u>	N/A
	ck walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
	s have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with	adaarrata	X			
Auachea piping is	rigiaiy supportea ana attacnea conautis were jouna with	aaequate	Y	N	U	
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X			
Other Adverse Co						
	ed for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	U	
Comments (Addit	ional pages may be added as necessary)				_	
	atter Mahna IV					
Evaluated by:	Eddie M. Guerra	Date:	8/26/20	012	_	
	Enfli					
	Brian A. Lucarelli	Date:	8/26/20	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0020</u> Equip. Class 14. Distribution Panels

Equipment Description

Distribution Panel EK-1-B1



File Name: 2-61-6-4-22.jpeg Description: Component Plate ID



File Name: 2-62-6-4-22.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0020</u> Equip. Class 14. Distribution Panels

Equipment Description

Distribution Panel EK-1-B1



File Name: 2-63-6-4-22.jpeg Description: View of base anchorage detail



File Name: 2-64-6-4-22.jpeg Description: View of top attached lines

Paul C. Rizzo Associates, Inc. Engineers & consultants			Sheet 377 of 4		
Seismic Walkdown Checklist (SWC)	Status:	(N	U	
Equipment ID No. <u>1R25S002</u> 2 Equip. Class 14. Distribution Panels					
Equipment Description Distribution Panel EK-1-C1					
Location: Bldg. <u>CC</u> Floor El. <u>620</u>					
Manufacturer, Model, Etc.					

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

D

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

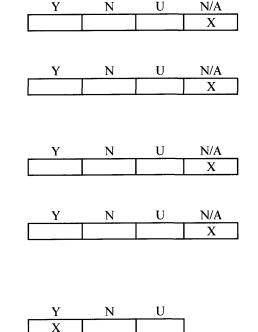
In-line with 8 section MCC 1R24S0029. 8 section MCC with combination of direct weld to perimeter concrete pad angles and plug-welded 3/8" shims configuration is used for anchorage. This configuration was addressed adequately in calculation SQ-0178 for ECP 02-0184 rev 0. No further action was required.

Y	Ν
	Х

Sheet 377 of 461

0	T 11	1 0	C1 .	1 1	• •		1 1 0
	is the and	horage tr	ree of hent	broken	missing c	nr loose	hardware?
	is the alle	noruge n	ice of being	, oroken,	missing c	1 10030	nara ware:

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 37	'8 of
Seismic Walkdown Checklist (SWC)	Status:	Ŷ	N	
Equipment ID No. <u>1R25S002</u> 2 Equip. Class 14. Distribution Panels				
Equipment Description Distribution Panel EK-1-C1				-
Interaction Effects			_	
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N	U]
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y	N	U]
and masonry block walls not likely to collapse onto the equipment? Hanging lights near the component identified with spring-type fixtures. Judged not a interaction concern.			_1	<u>I</u>
9. Do attached lines have adequate flexibility to avoid damage? Attached piping is rigidly supported and attached conduits were found with adequat	e Y X	N	U	1
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y X	<u>N</u>	U]
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y X	N	U]
Comments (Additional pages may be added as necessary)			_	
atter Mahmerty				
Evaluated by: Eddie M. Guerra Date:	8/26/2	012	_	
Entfill				
Brian A. Lucarelli Date:	8/26/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0022</u> Equip. Class 14. Distribution Panels

Equipment Description

Distribution Panel EK-1-C1



File Name: 2-61-7-4-22.jpeg Description: Component Plate ID



File Name: 2-62-7-4-22.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R25S0022 Equip. Class 14. Distribution Panels

Equipment Description

Distribution Panel EK-1-C1



File Name: 2-63-7-4-22.jpeg Description: View of base anchorage detail



File Name: 2-64-7-4-22.jpeg Description: View of top attached lines

DCQ	Paul C. Rizzo Associates, Inc.
	ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No. <u>1R25S002</u> 5 Equip. Clas	s 4. Transformers				
Equipment Description 480V to 120V XFM	IR EFB-1-A1				
Location: Bldg. <u>CC</u> Floor El.	620				
Manufacturer, Model, Etc.					

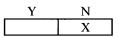
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Mounted on C5 channels. Bolted with 6 - 1/2" diam machine bolts to channel flange. C5 to perimeter concrete pad angles with wrap around welds at ends of C5 base (~7 1/2" of 1/4" welds).

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



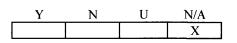
Y

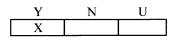
X				
Y	N	U	N/A	
Х				
Y	N	U	NI/A	
	IN	U	N/A	
Х				

Ν

U

N/A





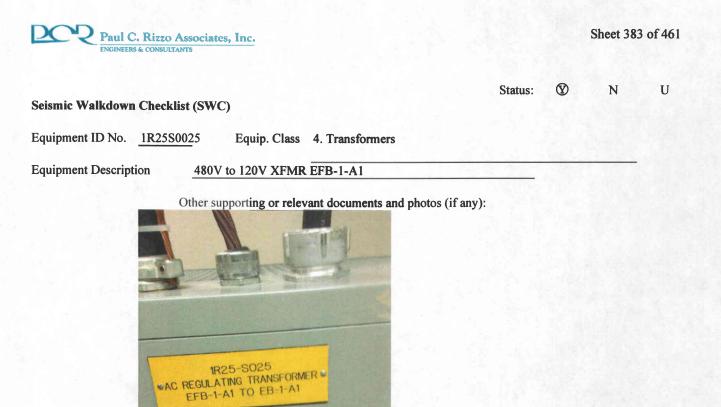
Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 382 of 461	
Seismic Walkdown Checklist (SWC)	Status:	Ŷ	N	U
Equipment ID No. <u>1R25S0025</u> Equip. Class 4. Transformers				
Equipment Description 480V to 120V XFMR EFB-1-A1				
Interaction Effects			_	
Interaction Enects	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
	<u>Y</u>	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X	<u>.</u>		
	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?				
Attached piping is rigidly supported and attached conduits were found with adequate				
	Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free	X			
of potentially adverse seismic interaction effects?				
Other Adverse Conditions		<u></u>	_	
11. Have you looked for and found no other seismic conditions that could	Y	Ν	U	
adversely affect the safety functions of the equipment?	X			
Comments (Additional pages may be added as necessary)			_	
atter Mahmed V				
Evaluated by: Eddie M. Guerra Date:	8/26/20	012	-	

Enfli

Brian A. Lucarelli

Date:

8/26/2012



File Name: 2-61-13-4-06.jpeg Description: Component Plate ID



File Name: 2-62-13-4-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R25S0025 Equip. Class 4. Transformers

Equipment Description

480V to 120V XFMR EFB-1-A1



File Name: 2-63-13-4-06.jpeg Description: View of base anchorage detail



File Name: 2-64-13-4-06.jpeg Description: View of base anchorage detail



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R25S0025 Equip. Class 4. Transformers

Equipment Description

480V to 120V XFMR EFB-1-A1



File Name: 2-73-13-4-06.jpeg Description: View of top attached lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS					Sheet 38	6 of 461
			Status:	\heartsuit	N	U
Seismic Walkdown Chec	klist (SWC)					
Equipment ID No. <u>1R25</u>	<u>S003</u> 3 Equip.	Class 4. Transformers				
Equipment Description	480V to 120V	XFMR EFB-1-A2				
Location: Bldg. <u>CC</u>	Floor E	El. <u>620</u>				
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

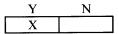
oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

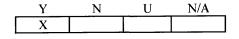
Mounted on C5 channels. Bolted with 6 - 1/2" diam machine bolts to channel flange. C5 to perimeter concrete pad angles with wrap around welds at ends of C5 base (\sim 7 1/2" of 1/4" welds).

2. Is the anchorage free of bent, broken, missing or loose hardware?

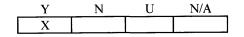
3. Is the anchorage free of corrosion that is more than mild surface

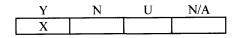


	Y	Ν	U	N/A
	Х			
hanner of the second				

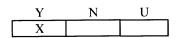


4. Is the anchorage free of visible cracks in the concrete near the anchors?





- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Welding configuration confirmed per Document 1-6-7, page 186-187.
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS (\mathfrak{V}) Ν U Status: Seismic Walkdown Checklist (SWC) Equipment ID No. 1R25S0033 Equip. Class 4. Transformers **Equipment Description** 480V to 120V XFMR EFB-1-A2 **Interaction Effects** N/A U Y Ν 7. Are soft targets free from impact by nearby equipment or structures? Х U N/A N Y Х 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Hanging lights in the area judged not a concern due to end tube spring type connections. Y Ν U N/A X 9. Do attached lines have adequate flexibility to avoid damage? Attached piping is rigidly supported and attached conduits were found with adequate U N Υ X 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could Y U adversely affect the safety functions of the equipment? X Corner is welded to shims. Shims are welded to base. Comments (Additional pages may be added as necessary) the My hand V Date: Evaluated by: 8/26/2012 Eddie M. Guerra

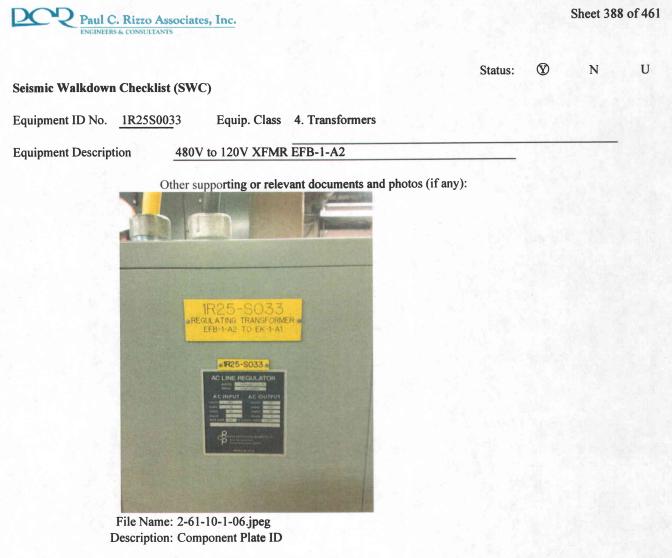
En Al

Brian A. Lucarelli

Date:

8/26/2012

Sheet 387 of 461





File Name: 2-62-10-1-06.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0033</u> Equip. Class 4. Transformers

Equipment Description

480V to 120V XFMR EFB-1-A2



File Name: 2-63-10-1-06.jpeg Description: View of base anchorage detail



File Name: 2-64-10-1-06.jpeg Description: View of base anchorage detail



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R25S0033</u>

Equip. Class 4. Transformers

Equipment Description

480V to 120V XFMR EFB-1-A2



File Name: 2-73-10-1-06.jpeg Description: View of mounting base configuration

Paul C. Rizzo Associates, Inc.			S	Sheet 391	of 461
Seismic Walkdown Checklist (SWC)		Status:	(N	U
Equipment ID No. <u>1R42S000</u> 2 Equip. Class	15. Battery Racks				
Equipment Description Unit 1 Div 1 Battery					
Location: Bldg. <u>CC</u> Floor El.	638				
Manufacturer, Model, Etc.					

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

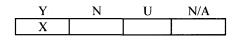
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

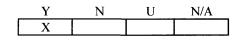
Two single racks. Each rack has two rows and has three bays. The racks are fully braced. Each bay is welded to embeds with $\sim 16"$ of 1/4" fillet welds. Battery cells divided by 1 inch foam pad.

2. Is the anchorage free of bent, broken, missing or loose hardware?



N

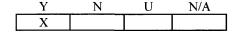


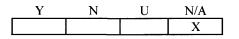


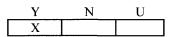
oxidation?

3. Is the anchorage free of corrosion that is more than mild surface

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?







Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Seismic Walkdow	vn Checklist (SWC)		Status:	(Ν	U
Equipment ID No.						
Equipment Descri	ption Unit 1 Div 1 Battery		· · · · · · · · · · · · · · · · · · ·			
Interaction Effec	ts		Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
8 Are overhead e	quipment, distribution systems, ceiling tiles and lighting,	–	Y X	N	U	N/A
and masonry blo	ock walls not likely to collapse onto the equipment? fixtures found with protective covering.	L				
0 De etteched lin	as have a desurte flowikility to avoid damage?		Y X	N	U	N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with ade	equate				
10 Based on the s	bove seismic interaction evaluations, is equipment free		Y X	N	<u> </u>]
	dverse seismic interaction effects?		<u></u>		.	1
Other Adverse C	onditions	<u> </u>				
	ted for and found no other seismic conditions that could to the safety functions of the equipment?		Y X	N	U]
Comments (Addi	tional pages may be added as necessary)				-	
	atter Mahra 1					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	2012	-	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	2012		

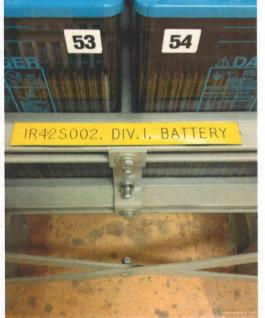


Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 1R42S0002
 Equip. Class
 15. Battery Racks

 Equipment Description
 Unit 1 Div 1 Battery

Other supporting or relevant documents and photos (if any):



File Name: 2-61-4-4-02.jpeg Description: Component Plate ID



File Name: 2-62-4-4-02.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R42S000</u>2 Equip. Class 15. Battery Racks

Equipment Description

Unit 1 Div 1 Battery



File Name: 2-63-4-4-02.jpeg Description: View of component base detail



File Name: 2-64-4-02.jpeg Description: View of rack base detail



Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 <u>1R42S0002</u>
 Equip. Class
 15. Battery Racks

Equipment Description

Unit 1 Div 1 Battery



File Name: 2-73-4-4-02.jpeg Description: View of attached line



File Name: 2-94-4-02.jpeg Description: View of battery cells separation

DCS	Paul C. Rizzo Associates, Inc.	
	ENGINEERS & CONSULTANTS	

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Seismic Walkdown Checklist (SWC)

Equipment ID No. 11	R42S0008 Equip.	Class 16. Battery	y Chargers and Inverters	
Equipment Description	EFD-1-B Batte	ry Charger		
Location: Bldg. <u>C</u>	C Floor E	El. <u>638</u>	_	
Manufacturer, Model, I	Etc			

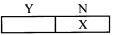
Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Charger mounted on channel base welded with 3 - 4" stitch welds at 12" oc to embedment. Concrete pad around 5" thick. Charger is attached to flanges of base channels with 3-1/2" diam. bolts on each side.

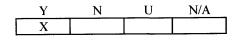


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Y

Y	N	U	N/A
X			
<u> </u>			



U

U

N/A

N/A

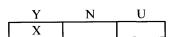
Х

oxidation?

2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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ENGINEER	8 & CONSULTANTS				
		Status:	$\langle Y \rangle$	N	U
Seismic Walkdow	n Checklist (SWC)	0	Ŭ		0
Equipment ID No.	<u>1R42S0008</u> Equip. Class 16. Battery Chargers and Inverte	ers			
Equipment Descrip	tion EFD-1-B Battery Charger				
Interaction Effects	3			-	
7. Are soft targets f	ree from impact by nearby equipment or structures?	Y X	N	U	N/A
		Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?	X			
		Y	N	U	N/A
	s have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with adequate		1		
		Y	N	U	I
	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?	X			
				_	
	d for and found no other seismic conditions that could	Y X	N	U	I
adversely affect	the safety functions of the equipment?			I	
Comments (Addition	onal pages may be added as necessary)			-	
	- Atta Mahna 1				
Evaluated by:	Eddie M. Guerra Date:	8/26/2	012	-	
	Endli				

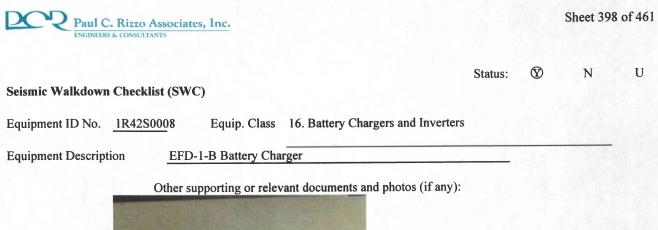
Date:

8/26/2012

Sheet 397 of 461

Brian A. Lucarelli

Paul C. Rizzo Associates, Inc.





File Name: 2-61-2-4-02.jpeg Description: Component Plate ID



File Name: 2-62-2-4-02.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

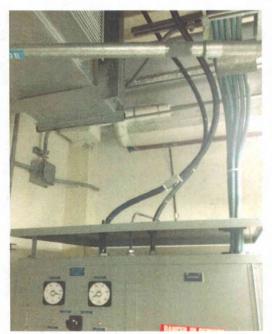
Equipment ID No. 1R42S0008 Equip. Class 16. Battery Chargers and Inverters

Equipment Description

EFD-1-B Battery Charger



File Name: 2-63-2-4-02.jpeg Description: View of component base



File Name: 2-64-2-4-02.jpeg Description: View of attached top lines

Paul C. Rizzo Associat			Sheet 400	00 of 461	
Seismic Walkdown Checklist (SW	С)	Status:	(N	U
Equipment ID No. <u>1R42S001</u> 2	Equip. Class 14. Distribution Panels				
Equipment Description Dist	ribution panel ED1A06				
Location: Bldg. <u>CC</u>	Floor El. <u>638</u>				
Manufacturer, Model, Etc.					

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

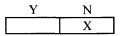
oxidation?

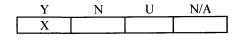
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

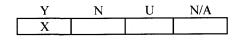
Distribution panel ED1A06. 8ft tall panel on inverted channels at base. C4 welded to perimeter concrete. Pad angles at 4 corners with $\sim 4''$ of 5/16" weld. Panel attached to web of channels with 4 - 1/2" diam machine bolts.

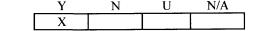
2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface

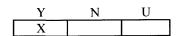








Y	Ν	U	N/A
			X



5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

4. Is the anchorage free of visible cracks in the concrete near the anchors?

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

	C. Rizzo Associates, Inc. RS& CONSULTANTS				Sheet 40	1 of 461
Seismic Walkdow	n Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No.	1R42S0012 Equip. Class 14. Distribution Panels					
Equipment Descrip	Distribution panel ED1A06					
Interaction Effect	s		V	N		N/A
7. Are soft targets	free from impact by nearby equipment or structures?	[Y X	N	U	
		г	Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	L	Х			
			Y	N	U	N/A
	s have adequate flexibility to avoid damage?	[X			
	rigidly supported and attached conduits were found with ade	quate	Y	N	U	l
	bove seismic interaction evaluations, is equipment free lverse seismic interaction effects?	Į	X			
Other Adverse Co			V		— 	
	ed for and found no other seismic conditions that could the safety functions of the equipment?	Γ	Y X	<u>N</u>		
		-				
Comments (Addit	ional pages may be added as necessary)				<u> </u>	
	Total Alfred &					
Evaluated by:	Eddie M. Guerra Da	ate:	8/26/2	2012		
	Entfill	-				
	Brian A. Lucarelli Da	ate:	8/26/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R42S0012</u> Equip. Class 14. Distribution Panels

Equipment Description

Distribution panel ED1A06

Other supporting or relevant documents and photos (if any):



File Name: 2-61-8-4-22.jpeg Description: Component Plate ID



File Name: 2-62-8-4-22.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R42S0012 Equip. Class 14. Distribution Panels

Equipment Description

Distribution panel ED1A06



File Name: 2-63-8-4-22.jpeg Description: View of anchor bolts at base



File Name: 2-64-8-4-22.jpeg Description: View of base anchorage detail



Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 1R42S0012
 Equip. Class
 14. Distribution Panels

 Equipment Description
 Distribution panel ED1A06



File Name: 2-73-8-4-22.jpeg Description: View of top attached lines

DCS	Paul C. Rizzo Associates,	Inc.
	ENGINEERS & CONSULTANTS	

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Equipment ID No. <u>1R42S00</u>	Equip. Class	14. Distribution Panels	
Equipment Description	ED 1B06 Distribution	Panel	•
Location: Bldg. <u>CC</u>	Floor El.	638	
Manufacturer, Model, Etc.			

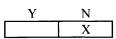
Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

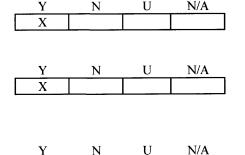
Distribution panel ED1B06. 8ft tall panel on inverted channels at base. C4 welded to perimeter concrete. Pad angles at 4 corners with \sim 4" of 5/16" weld. Panel attached to web of channels with 4 - 1/2" diam machine bolts.

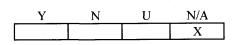


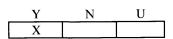
X

2. Is the anchorage	free of bent.	broken.	missing o	or loose	hardware?
2. 15 the unenoinge	mee or oem,	oronen,	moonig	10050	mara mare.

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?







Paul C ENCINEER			Sheet 40	6 of 461	
Seismic Walkdown	n Checklist (SWC)	Status:	Ŷ	N	U
Equipment ID No.	1R42S0013 Equip. Class 14. Distribution Panels				
Equipment Descript	tion ED 1B06 Distribution Panel				
Interaction Effects		Y	N	U	N/A
7. Are soft targets fi	ree from impact by nearby equipment or structures?		1		
		Y	N	U	N/A
	ipment, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?	X	11. To 10.		
		Y	N	U	N/A
	have adequate flexibility to avoid damage? igidly supported and attached conduits were found with adequate	X			
Anachea piping is r	igiaiy supporteu una anachea conauns were jouna with adequate				
10. Based on the ab	ove seismic interaction evaluations, is equipment free	Y X	N	U	
	verse seismic interaction effects?	L			
Other Adverse Co		V	N	– U	
	d for and found no other seismic conditions that could the safety functions of the equipment?	Y X	N]
Comments (Addition	onal pages may be added as necessary)			_	
	atter My fine i				
Evaluated by:	Eddie M. Guerra Date:	8/26/2	2012	_	
	ErAN				

Brian A. Lucarelli

Date:

8/26/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R42S0013</u> Equip. Class 14. Distribution Panels

Equipment Description

ED 1B06 Distribution Panel

Other supporting or relevant documents and photos (if any):



File Name: 2-61-9-4-22.jpeg Description: Component Plate ID



File Name: 2-62-9-4-22.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R42S0013</u> Equip. Class 14. Distribution Panels

Equipment Description

ED 1B06 Distribution Panel



File Name: 2-63-9-4-22.jpeg Description: View of anchor bolts at base



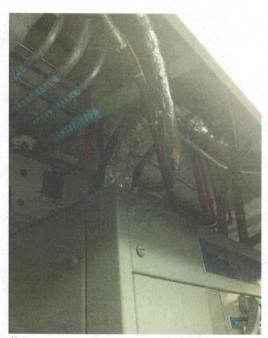
File Name: 2-64-9-4-22.jpeg Description: View of base anchorage detail



Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 1R42S0013
 Equip. Class
 14. Distribution Panels

 Equipment Description
 ED 1B06 Distribution Panel



File Name: 2-73-9-4-22.jpeg Description: View of top attached lines

DCS	Paul C. Rizzo Associates,	Inc
_	ENGINEERS & CONSULTANTS	

Seismic Walkdown (Checklist (SWC	C)		Status:	\heartsuit	Ν	U
	1R42S0014	,	14. Distribution Panels				
Equipment Description	on <u>ED11</u>	308 Distribution	Panel				
Location: Bldg.	CC	Floor El.	638				
Manufacturer, Model	, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Distribution panel ED1A08. 8ft tall panel on inverted channels at base. C4 welded to perimeter concrete. Pad angles at 4 corners with \sim 4" of 5/16" weld. Panel attached to web of channels with 4 - 1/2" diam machine bolts.

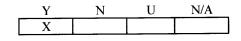
2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface

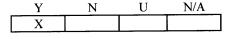
Y N U N/A

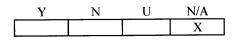
Ν

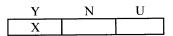
Y



- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?







Paul ENGINE	C. Rizzo Associates, Inc.			Sheet 411 of 461		
Seismic Walkdow	n Checklist (SWC)	Status:	Ŷ	N	U	
Equipment ID No.	<u>1R42S001</u> 4 Equip. Class 14. Distribution Panels					
Equipment Descrij	ption ED1B08 Distribution Panel				-	
Interaction Effect	ts					
		Y	N	<u> </u>	<u>N/A</u>	
7. Are soft targets	free from impact by nearby equipment or structures?	X				
		Y	N	U	N/A	
	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	X			<u> </u>	
		Y	N	U	N/A	
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with adequate	X				
		Y	Ν	U		
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	X]	
	onditions ed for and found no other seismic conditions that could t the safety functions of the equipment?	Y X	N	U	1	
	tional pages may be added as necessary)	,		_	-	
Evaluated by:	Eddie M. Guerra Date:	8/26/2	012			
	ELM.					

Confl

Brian A. Lucarelli

Date:

8/26/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R42S0014 Equip. Class 14. Distribution Panels

Equipment Description

ED1B08 Distribution Panel

Other supporting or relevant documents and photos (if any):



File Name: 2-61-10-4-22.jpeg Description: Component Plate ID



File Name: 2-62-10-4-22.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R42S0014</u> Equip. Class 14. Distribution Panels

Equipment Description

ED1B08 Distribution Panel



File Name: 2-63-10-4-22.jpeg Description: View of base anchorage detail



File Name: 2-64-10-4-22.jpeg Description: View of anchor bolts at base



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R42S0014 Equip. Class 14. Distribution Panels

Equipment Description

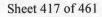
ED1B08 Distribution Panel



File Name: 2-73-10-4-22.jpeg Description: View of top attached lines

Paul C. Rizzo Associates, Inc. INGINEERS & CONSULTANTS			Sheet 41	5 of 461
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>1R42S0024</u> Equip. Class 2. Low Voltage Switchgear	r			
Equipment Description ED-1-A 125 V DC Bus				
Location: Bldg. <u>CC</u> Floor El. <u>638</u>				
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting	e results of judgm			
Anchorage				
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y X	N]	
This is a three section switchgear. It is welded to embeds with an average of at least 100 and 100 and 100 and 100 at least 100 and 100 at least 100 at least 100 and 100 at least 100 at l	ast			
2. Is the anchorage free of bent, broken, missing or loose hardware? Welds to base found in adequate condition.	Y X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	N	U	N/A
	V	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? <i>Base found in adequate condition</i>	Y		0	
	Y	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for	<u> </u>			
which an anchorage configuration verification is required.) Welding configuration confirmed per Document 1-6-7, page 92-96.				
 which an anchorage configuration verification is required.) Welding configuration confirmed per Document 1-6-7, page 92-96. 6. Based on the above anchorage evaluations, is the anchorage free of 	Y	N	<u>U</u>	I

Paul ENGINE			Sheet 41	6 of 461		
Seismic Walkdow	n Checklist (SWC)		Status:	Ŵ	Ν	U
Equipment ID No.	<u>1R42S0024</u> Equip. Class 2. Low Voltage Switch	hgear				
Equipment Descri	ED-1-A 125 V DC Bus					
Interaction Effect	ts		Y	NI	-	N1/A
7. Are soft targets free from impact by nearby equipment or structures?				N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	[Y X	N	U	N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with a	[dequate	Y X	<u>N</u>	U	N/A
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	[Y X	N	U	
adversely affec Overhead attached center of rail (sign	ed for and found no other seismic conditions that could t the safety functions of the equipment? trolly restrained per IPEEE resolution which is to park the age added) and restrain the hook from banging,	[trolly at	Y X	N	- U	l
Comments (Addit	ional pages may be added as necessary)					
	atter UShand					
Evaluated by:	Eddie M. Guerra	Date:	8/26/2	012	_	
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	012		





Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R42S0024 Equip. Class 2. Low Voltage Switchgear

Equipment Description

ED-1-A 125 V DC Bus

Other supporting or relevant documents and photos (if any):



File Name: 2-61-3-4-02.jpeg Description: Component Plate ID



File Name: 2-62-3-4-02.jpeg Description: General view of component



Ν U Status:

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R42S0024 Equip. Class 2. Low Voltage Switchgear

ED-1-A 125 V DC Bus

Equipment Description

File Name: 2-63-3-4-02.jpeg Description: Inside view of component



Paul C. Rizzo Associates, Inc.					Sheet 419 of 461	
			Status:	\odot	N	U
Seismic Walkdown Checklist (SWC	C)					
Equipment ID No. <u>1R42S003</u> 7	Equip. Class	2. Low Voltage Switchgear				
Equipment Description ED-1	-C 125 V DC E	Bus		<u>.</u>		
Location: Bldg. DG	Floor El.	620				
Manufacturer, Model, Etc.						

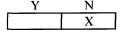
Instructions for Completing Checklist

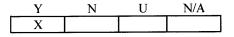
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

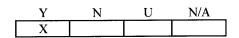
Anchorage

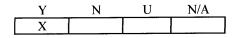
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 Panel on 4" concrete pad anchored with 48 - 3/8" diam anchor bolts.

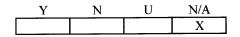
- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation?(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

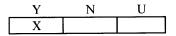












Paul C. Ri ENGINEERS & CO	zzo Associates, Inc. ^{NSULTANTS}			Sheet 4	20 of 461
Seismic Walkdown Ch	ecklist (SWC)	Stat	us: Q) N	U
Equipment ID No. <u>1R</u>	42S0037 Equip. Class 2. Low Voltage Swit	chgear			
Equipment Description	ED-1-C 125 V DC Bus				_
Interaction Effects		V	N	U U	N/A
7. Are soft targets free f	rom impact by nearby equipment or structures?				
		Y	N	<u> </u>	N/A
	ent, distribution systems, ceiling tiles and lighting, ills not likely to collapse onto the equipment?	X		L	
	e adequate flexibility to avoid damage?	Y X	N	U U	N/A
Attached piping is rigid	ly supported and attached conduits were found with	adequate Y	N	I U	
	seismic interaction evaluations, is equipment free e seismic interaction effects?	X			
	ions and found no other seismic conditions that could afety functions of the equipment?	Y X	N	U U	
Comments (Additional	pages may be added as necessary)			<u>.</u>	
_	Edder Ulfrager				
Evaluated by: Ed	die M. Guerra	Date: 8/	26/2012		

Enfl

Brian A. Lucarelli

Date:

8/26/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R42S0037 Equip. Class 2. Low Voltage Switchgear

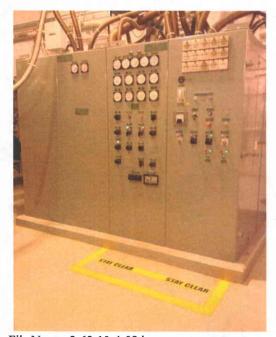
Equipment Description

ED-1-C 125 V DC Bus

Other supporting or relevant documents and photos (if any):



File Name: 2-61-10-4-08.jpeg Description: Component Plate ID



File Name: 2-62-10-4-08.jpeg Description: General view of Component

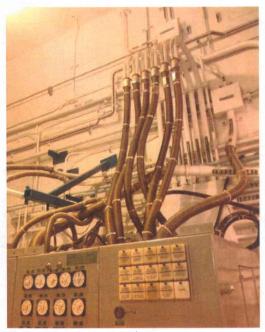


Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R42S0037</u> Equip. Class 2. Low Voltage Switchgear

Equipment Description

ED-1-C 125 V DC Bus



File Name: 2-63-10-4-08.jpeg Description: View of top attached lines



File Name: 2-64-10-4-08.jpeg Description: View of attached lines



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R42S0037 Equip. Class 2. Low Voltage Switchgear

Equipment Description

ED-1-C 125 V DC Bus



File Name: 2-73-10-4-08.jpeg Description: General view of concrete base



File Name: 2-94-10-4-08.jpeg Description: View of anchorage from inside of cabinet

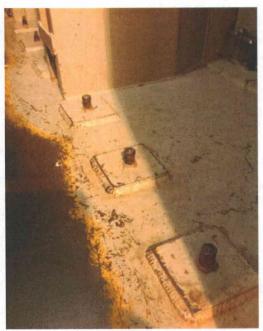


Seismic Walkdown Checklist (SWC)

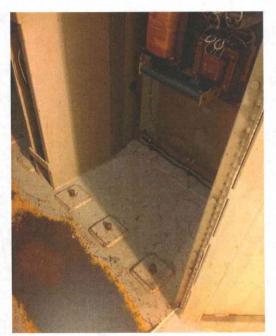
Equipment ID No. 1R42S0037 Equip. Class 2. Low Voltage Switchgear

Equipment Description

ED-1-C 125 V DC Bus



File Name: 2-95-10-4-08.jpeg Description: Typical detail for anchorage configuration



File Name: 2-96-10-4-08.jpeg Description: View of anchorage detail from inside of cabinet

ENGINEERS & CONSULTANTS						
			Status:	\heartsuit	N	U
Seismic Walkdown Checklist (SWC)					
Equipment ID No. <u>1R42S003</u>	B Equip. Class 1. Mot	or Control Centers				
Equipment Description	DIV 2, MCC ED1B09					
Location: Bldg. <u>CC</u>	Floor El. <u>638</u>					
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

Paul C. Rizzo Associates, Inc.

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

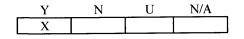
oxidation?

 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 This is a two section MCC on heavy steel base members. The base members are anchored with 6-1" diam. anchors. The MCC base channel is welded to base members with an average of at least 5" of weld (F&B) per section.

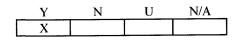
2. Is the anchorage free of bent, broken, missing or loose hardware?

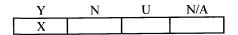
3. Is the anchorage free of corrosion that is more than mild surface

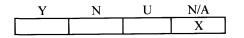
Y N X



Sheet 425 of 461







Y	N	U	
X			

 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

4. Is the anchorage free of visible cracks in the concrete near the anchors?

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul C. Rizzo Associates, Inc.		Sheet 42	6 of 461	
Seismic Walkdown Checklist (SWC)	Status:	Ŷ	N	U
Equipment ID No. <u>1R42S0038</u> Equip. Class 1. Motor Control Centers				
Equipment Description DIV 2, MCC ED1B09				-
Interaction Effects	N	N		N 1/A
7. Are soft targets free from impact by nearby equipment or structures?	Y X	<u>N</u>		N/A
The solution of structures.				
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	X			
and masonry block walls not likely to collapse onto the equipment?				
	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?	X			
Attached piping is rigidly supported and attached conduits were found with adequate				
	Y	N	U	1
10. Based on the above seismic interaction evaluations, is equipment free	X]
of potentially adverse seismic interaction effects?				
Other Adverse Conditions	V	NT	T	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	$\begin{bmatrix} Y \\ X \end{bmatrix}$	N	<u> </u>	1
	L			4
Comments (Additional pages may be added as necessary)		<u>.</u>	_	

atter Mina :

Evaluated by:

Eddie M. Guerra

8/26/2012 Date:

Date:

8/26/2012

Sheet 426 of 461

Enfl

Brian A. Lucarelli

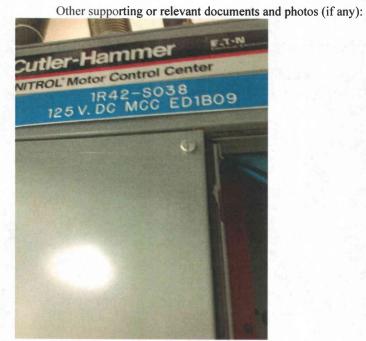


Seismic Walkdown Checklist (SWC)

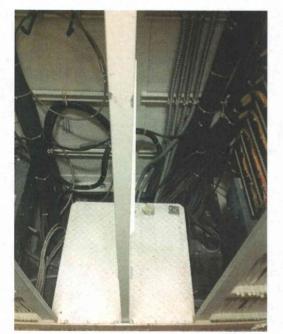
Equipment ID No. 1R42S0038 Equip. Class 1. Motor Control Centers

DIV 2, MCC ED1B09

Equipment Description



File Name: 2-64-1-4-02.jpeg Description: Component ID Plate



File Name: 2-62-1-4-02.jpeg Description: Inside view of component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS						Sheet 428	3 of 461
				Status:	\odot	N	U
Seismic Walkdown	Checklist (SWC)					
Equipment ID No.	<u>1R43S000</u> 1B	Equip. Class	17. Engine Generators				
Equipment Descripti	ion <u>Divisi</u>	on 2 Emergenc	y Diesel Generator				
Location: Bldg.	DG	Floor El.	620				
Manufacturer, Mode	el, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

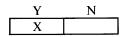
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

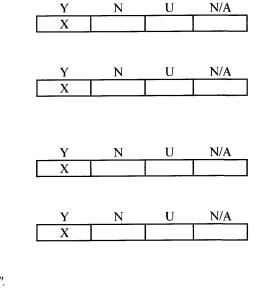
Anchored with 22 - 2" diam anchors along long side of DG. Motor and generator on the same pedestal.

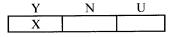
- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?

4. Is the anchorage free of visible cracks in the concrete near the anchors? *Several hairline cracks identified near anchor bolts and judged acceptable.*

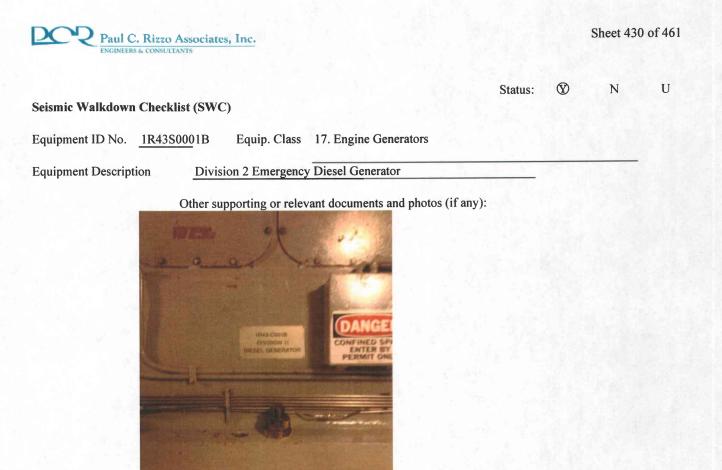
- Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
 Anchorage configuration confirmed by Drawing 417-0066, Foundation Plan "A".
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



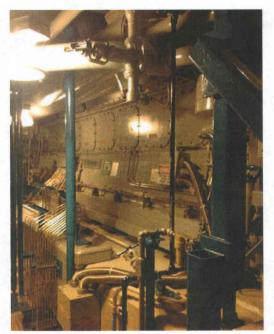




	C. Rizzo Associates, Inc.				Sheet 42	9 of 461
Seismic Walkdow	yn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No.	1R43S0001B Equip. Class 17. Engine Generators					
Equipment Descrip	ption Division 2 Emergency Diesel Generator		···			-
Interaction Effect	ts			N T	 	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
8. Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,	ſ	Y X	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?						
0 De etteched line		Г	Y X	N	U	N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with ade	L quate				
			Y	N	U	
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	[X]
Other Adverse C					_	
	ed for and found no other seismic conditions that could t the safety functions of the equipment?	[Y X	N	U]
Comments (Addit	tional pages may be added as necessary)				_	
	Atter Mylina "					
Evaluated by:	Eddie M. Guerra D	ate:	8/26/2	012		
	Endfl					
	Brian A. Lucarelli D.	ate:	8/26/2	012		



File Name: 2-61-17-4-08.jpeg Description: Component Plate ID



File Name: 2-62-17-4-08.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R43S0001B</u> Equip. Class 17. Engine Generators

Equipment Description

Division 2 Emergency Diesel Generator



File Name: 2-63-17-4-08.jpeg Description: View of component base detail



File Name: 2-64-17-4-08.jpeg Description: View of attached lines



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R43S0001B</u> Equip. Class 17. Engine Generators

Equipment Description

Division 2 Emergency Diesel Generator



File Name: 2-73-17-4-08.jpeg Description: General view of component



File Name: 2-94-17-4-08.jpeg Description: View of anchorage detail



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R43S0001B</u> Equip. Class 17. Engine Generators

Equipment Description

Division 2 Emergency Diesel Generator



File Name: 2-95-17-4-08.jpeg Description: View of base mounting configuration

Paul C. Rizzo Associates, Inc. NGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC)	Status:	 N	U
Equipment ID No. <u>1R45A0003A</u> Equip. Class 21. Tanks and Heat Exchangers			
Equipment Description DIV 1 EDG Fuel Oil Day Tank		 	
Location: Bldg. DG Floor El. 620			
Manufacturer, Model, Etc.			

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

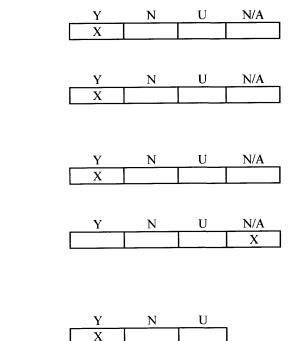
Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Heavy braced framing system identified. Support system is insulated and its details can not be inspected.

Y N X

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Paul C ENGINEER	2. Rizzo Associates, Inc.			Sheet 43:	5 of 461
Seismic Walkdown	n Checklist (SWC)	Status:	\odot	Ν	U
Equipment ID No.	<u>1R45A0003A</u> Equip. Class 21. Tanks and Heat Exchangers				
Equipment Descript	ion DIV 1 EDG Fuel Oil Day Tank				
Interaction Effects		••		**	NT/ A
7. Are soft targets fi	ree from impact by nearby equipment or structures?	Y X	<u>N</u>	U	N/A
8. Are overhead equ	ipment, distribution systems, ceiling tiles and lighting,	Y X	N	U	N/A
and masonry bloc	k walls not likely to collapse onto the equipment?				
	have adequate flexibility to avoid damage? igidly supported and attached conduits were found with adequate	Y X	N	U	N/A
	ove seismic interaction evaluations, is equipment free	Y X	N	U	
of potentially ad	verse seismic interaction effects?				
	nditions d for and found no other seismic conditions that could the safety functions of the equipment?	Y X	N	- U	
	onal pages may be added as necessary)				
	- Atta I China I				
Evaluated by:	Eddie M. Guerra Date:	8/26/2	2012	_	
	Endfl				

Brian A. Lucarelli

Date:

8/26/2012



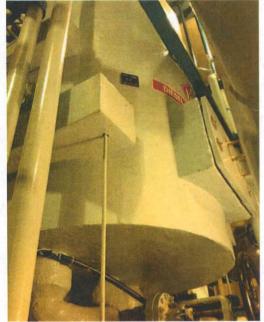
Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R45A0003A Equip. Class 21. Tanks and Heat Exchangers

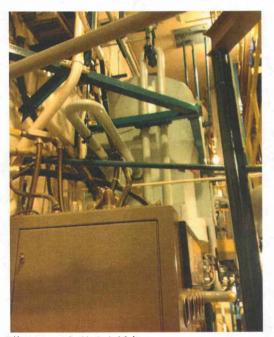
Equipment Description

DIV 1 EDG Fuel Oil Day Tank

Other supporting or relevant documents and photos (if any):



File Name: 2-61-5-4-08.jpeg Description: General view of Component



File Name: 2-62-5-4-08.jpeg Description: View of Lateral Bracing for Component

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS						Sheet 437	437 of 46	
Seismic Walkdow	n Checklist (SWC	ſ		Status:	Ŷ	N	U	
Equipment ID No.	,	,	5. Horizontal Pumps					
Equipment Descrip		Dil Transfer Pun						
Location: Bldg.	DG	Floor El.	620					
Manufacturer, Mod	lel, Etc.							

Instructions for Completing Checklist

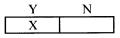
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

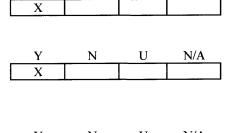
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Small pump+motor mounted on 8" concrete pedestal. Skid anchored with 4 - 5/8" diam anchor.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
 Anchorage configuration confirmed by Drawing 417-0069, Foundation Plan "M".
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



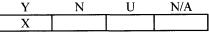
Y

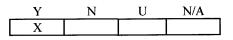


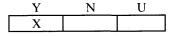
U

N/A

N







	I C. Rizzo Associates, Inc. FERS & CONSULTANTS			Sheet 43	8 of 461
Seismic Walkdov	wn Checklist (SWC)	Status:	\odot	N	U
Equipment ID No	. <u>1R45C000</u> 2B Equip. Class 5. Horizontal Pumps				
Equipment Descr	iption Fuel Oil Transfer Pump	······			•
Interaction Effec	ets			-	
7 Are soft targets	free from impact by nearby equipment or structures?	Y	N		N/A
7. The solt largets	nee nom impact by nearby equipment of structures.	A			
		Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting,	X			
and masonry blo	ock walls not likely to collapse onto the equipment?				
		Y	<u>N</u>	U	N/A
	es have adequate flexibility to avoid damage? s rigidly supported and attached conduits were found with adequ	X			
		Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	X			
				_	
Other Adverse C 11. Have you lool	Conditions ked for and found no other seismic conditions that could	Y	N	U	_
adversely affect	ct the safety functions of the equipment?	X			
Comments (Addi	itional pages may be added as necessary)			-	
	atter When I				
Evaluated by:	Eddie M. Guerra Dat	e: <u>8/26/</u>	2012	_	
	E HW				

ALL

Brian A. Lucarelli

Date:

8/26/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R45C0002B Equip. Class 5. Horizontal Pumps

Equipment Description

Fuel Oil Transfer Pump

Other supporting or relevant documents and photos (if any):



File Name: 2-61-16-4-08.jpeg Description: Component Plate ID



File Name: 2-62-16-4-08.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 1R45C0002B
 Equip. Class
 5. Horizontal Pumps

 Equipment Description
 Fuel Oil Transfer Pump

File Name: 2-63-16-4-08.jpeg Description: View of attached lines



U

Seismic Walkdown Checklist (SW	٧C)
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Equipment ID No. <u>1R45C000</u>	3A Equip. Class	5. Horizontal Pumps
Equipment Description	DIV 1 FO Booster PM	Р
Location: Bldg. DG	Floor El.	620
Manufacturer, Model, Etc.		

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

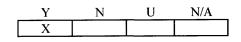
Very small pump on skid bolted to a much larger skid with 4 - 3/4" diam machine bolts. The larger skid anchorage with 16 - 3/4" diam anchor bolts. Larger skid identified with low aspect ratio.

Y N X

Y

Х

Y N U N/A



2. Is the anchorage free of bent, broken, missing or loose hardware?

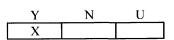
3. Is the anchorage free of corrosion that is more than mild surface

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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N/A



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Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS				Sheet 44	2 of 461
Seismic Walkdov	vn Checklist (SWC)		Status:	(Ν	U
Equipment ID No.	. <u>1R45C000</u> 3A Equip. Class 5. Horizontal Pumps					
Equipment Descri	ption DIV 1 FO Booster PMP					-
Interaction Effec	ts	<u></u>	Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?					
8 Are overhead e	quipment, distribution systems, ceiling tiles and lighting,		Y X	N	U	N/A
	bock walls not likely to collapse onto the equipment?					<u> </u>
9. Do attached line	es have adequate flexibility to avoid damage?		Y X	N	U	N/A
	rigidly supported and attached conduits were found with	adequate	Y X	N	U	1
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?					1
•	Conditions ked for and found no other seismic conditions that could be the safety functions of the equipment?	<u></u>	Y X	N	U]
Comments (Addi	tional pages may be added as necessary)	<u></u>			_	
	atter Mahra V					
Evaluated by:	Eddie M. Guerra	_Date:	8/26/2	2012		
	Entfl					
	Brian A. Lucarelli	Date:	8/26/2	2012		



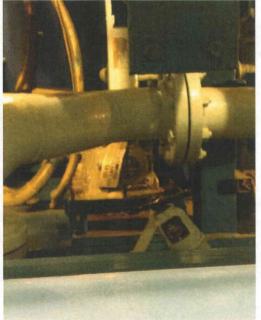
Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R45C0003A</u> Equip. Class 5. Horizontal Pumps

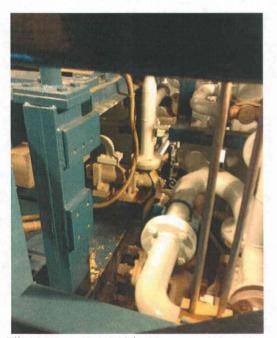
Equipment Description

DIV 1 FO Booster PMP

Other supporting or relevant documents and photos (if any):



File Name: 2-61-6-4-08.jpeg Description: Component Plate ID



File Name: 2-62-6-4-08.jpeg Description: General view of Component

DCS	Paul C. Rizzo Associates, Inc.
_	ENGINEERS & CONSULTANTS

	Status:	(Y)	Ν	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>1R45N014</u> 0A Equip. Class 18. In	strument (on) Racks			
Equipment Description Div 1 EDG Day Tank Level	Switch			
Location: Bldg. DG Floor El. 620				
Manufacturer, Model, Etc.				

Instructions for Completing Checklist

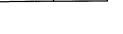
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

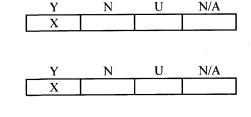
Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Small switch mounted at top of Day Tank. Pipe lines attached below the tank are in adequate condition.

2. Is the anchorage free of bent, broken, missing or loose hardware?





U

U

N/A

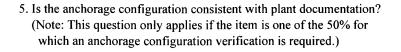
N/A

Х

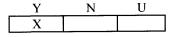
3. Is the anchorage free of corrosion that is more than mild surface oxidation?

No signs of corrosion identified in the area.

4. Is the anchorage free of visible cracks in the concrete near the anchors?



6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Ν

Ν

 $\frac{Y}{X}$

	C. Rizzo Associates, Inc.				Sheet 44	5 of 461
Seismic Walkdow	vn Checklist (SWC)		Status:	Ŷ	Ν	U
Equipment ID No.	<u>1R45N014</u> 0A Equip. Class 18. Instrument (on) Ra	cks				
Equipment Descri	ption Div 1 EDG Day Tank Level Switch					
Interaction Effec	ts		V	N		N1/A
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?		Y X	N	U	N/A
	es have adequate flexibility to avoid damage? rigidly supported and attached conduits were found with a	dequate	Y X	N	U	N/A
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		Y X	N	U	
-	onditions ed for and found no other seismic conditions that could t the safety functions of the equipment?		Y X	N	U	l
Comments (Addit	ional pages may be added as necessary)				_	
	- total Alfina 1					
Evaluated by:	Eddie M. Guerra	Date:	8/26/20	012		
	E.HU					
	Brian A. Lucarelli	Date:	8/26/20	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R45N0140A Equip. Class 18. Instrument (on) Racks

Equipment Description

Div 1 EDG Day Tank Level Switch

Other supporting or relevant documents and photos (if any):



File Name: 2-61-4-4-08.jpeg Description: General view of Component



File Name: 2-62-4-4-08.jpeg Description: View of attached lines below tank



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R45N0140A Equip. Class 18. Instrument (on) Racks

Equipment Description

Div 1 EDG Day Tank Level Switch



File Name: 2-63-4-4-08.jpeg Description: General view of bracing arrangement



File Name: 2-64-4-08.jpeg Description: Overall view of top of component

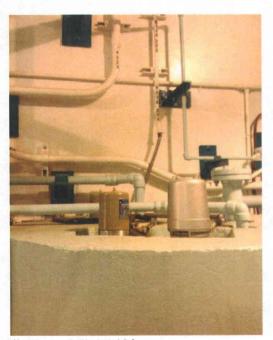


Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R45N0140A</u> Equip. Class 18. Instrument (on) Racks

Equipment Description

Div 1 EDG Day Tank Level Switch



File Name: 2-73-4-4-08.jpeg Description: View of attached lines from top



File Name: 2-94-4-4-08.jpeg Description: View of wall mounted supports

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 44	9 of 461
	Status:	(N	U
eismic Walkdown Checklist (SWC)				
quipment ID No. <u>1R46B000</u> 1A Equip. Class 21. Tanks and Heat Exchang	ers			
quipment Description DIV 1 JW/LO Heat Exchanger	······································			
ocation: Bldg. DG Floor El. <u>620</u>				
lanufacturer, Model, Etc.				
nstructions for Completing Checklist his checklist may be used to document the results of the Seismic Walkdown of an WEL. The space below each of the following questions may be used to record the ndings. Additional space is provided at the end of this checklist for documenting of	results of judgm			
nchorage	Y	N		
Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? mall diameter HX on three saddles. Connected to short saddle supports with 4 - 1' iam bolts. Saddle supported to concrete with 4 - 1" diam anchor bolts.	X]	
	Y	N	U	N/A
. Is the anchorage free of bent, broken, missing or loose hardware?	X			
	Y	N	U	N/A
. Is the anchorage free of corrosion that is more than mild surface	X	-		
oxidation?				
oxidation ?	Y	N	U	N/A
. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N	U	N/A
. Is the anchorage free of visible cracks in the concrete near the anchors?	X Y	N	U	N/A
	X			

	1 C. Rizzo Associates, Inc. RERS& CONSULTANTS			Sheet 45	0 of 461
Seismic Walkdo	wn Checklist (SWC)	Status:	\odot	N	U
Equipment ID No	D. <u>1R46B0001A</u> Equip. Class 21. Tanks and Heat Exchan	igers			
Equipment Descr	iption DIV 1 JW/LO Heat Exchanger				
Interaction Effe	cts	V	N		NI/A
7. Are soft target	s free from impact by nearby equipment or structures?	Y X	N	U	N/A
		Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	X			
		Y	N	U	N/A
	nes have adequate flexibility to avoid damage? is rigidly supported and attached conduits were found with adequ	X			
		Y	N	<u> </u>	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	X			
Other Adverse (_	
	ked for and found no other seismic conditions that could ct the safety functions of the equipment?	Y X	<u>N</u>	U	
Comments (Add	itional pages may be added as necessary)			_	
	atter Mahrier :				
Evaluated by:	Eddie M. Guerra Date	8/26/2	2012	_	
	Ertfl				
	Brian A Lucarelli Date	. 8/26/2	2012		

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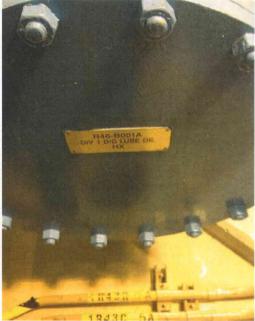
Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R46B0001A Equip. Class 21. Tanks and Heat Exchangers

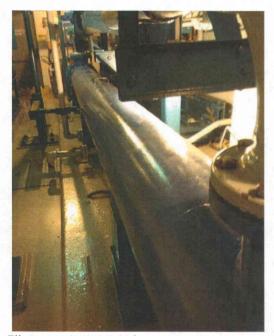
Equipment Description

DIV 1 JW/LO Heat Exchanger

Other supporting or relevant documents and photos (if any):



File Name: 2-61-7-4-08.jpeg Description: Component Plate ID



File Name: 2-62-7-4-08.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R46B0001A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

DIV 1 JW/LO Heat Exchanger



File Name: 2-63-7-4-08.jpeg Description: General view of anchorage



File Name: 2-64-7-4-08.jpeg Description: View of top conduit

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS		Sheet 453 of 46
	Status: 🕅	N U
Seismic Walkdown Checklist (SWC)		
Equipment ID No. <u>1R46B000</u> 2B Equip. Class 21. Tanks and Heat Exc	hangers	
Equipment Description Heat Exchanger	······································	
Location: Bldg. DG Floor El. <u>620</u>		

Instructions for Completing Checklist

Manufacturer, Model, Etc.

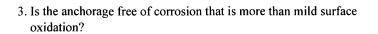
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

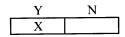
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

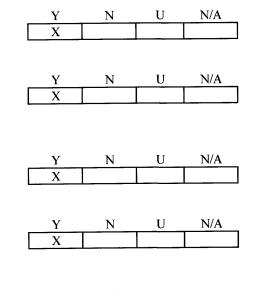
Small diameter HX on three saddles. Connected to short saddle supports with 4 - 1" diam bolts. Saddle supported to concrete with 4 - 1" diam anchor bolts.

2. Is the anchorage free of bent, broken, missing or loose hardware?

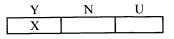


- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 57 -0009-00000 004 confirms anchorage configuration.
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?





Sheet 453 of 461





Seismic Walkdowı	n Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No.	<u>1R46B000</u> 2B Equip. Class 21. Tanks and Heat Exchangers				
Equipment Descrip	tion Heat Exchanger		<u></u>		
Interaction Effects	S			•	N T / A
7. Are soft targets f	free from impact by nearby equipment or structures?	$\frac{Y}{X}$	<u>N</u>	U	N/A
		Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting,	X			
and masoning bloc	sk wans not nkery to conapse onto the equipment?				
	_	Y	N	U	N/A
	s have adequate flexibility to avoid damage?	X			
Allachea piping is i	rigialy supported and attached conduits were jound with daequate				
10 Deced on the sh	pove seismic interaction evaluations, is equipment free	Y X	N	U	1
	Iverse seismic interaction effects?	A			J
Other Adverse Co	onditions			•	
-	ed for and found no other seismic conditions that could	Y X	<u>N</u>	<u>U</u>	1
adversely affect	the safety functions of the equipment?				J
Comments (Additi	ional pages may be added as necessary)			-	
	Atto My hima i				
Evaluated by:	Eddie M. Guerra Date:	8/26/2	012	_	
	Entfll				

Brian A. Lucarelli

_Date:

8/26/2012





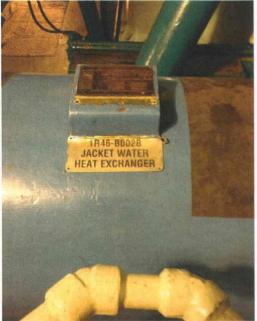
Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R46B0002B Equip. Class 21. Tanks and Heat Exchangers

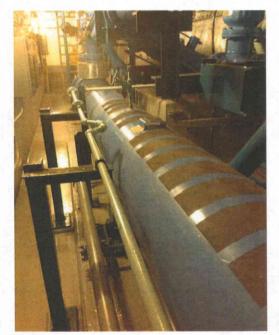
Equipment Description

Heat Exchanger

Other supporting or relevant documents and photos (if any):



File Name: 2-61-9-4-08.jpeg Description: Component Plate ID



File Name: 2-62-9-4-08.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 1R46B0002B Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Heat Exchanger



File Name: 2-63-9-4-08.jpeg Description: View of typical anchorage configuration



File Name: 2-64-9-4-08.jpeg Description: General view of component supports



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1R46B0002B</u> Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Heat Exchanger



File Name: 2-73-9-4-08.jpeg Description: View of lateral wall-mounted support

Paul C. Rizzo Associate	es, Inc.				Sheet 458	3 of 40
Seismic Walkdown Checklist (SWC	C)		Status:	Ŷ	N	U
Equipment ID No. 2R42S0037	Equip. Class	2. Low Voltage Switchgear				
Equipment Description 125 V	/ Bus ED-2-C					
Location: Bldg. <u>CC</u>	Floor El.	620				
Manufacturer, Model, Etc.						

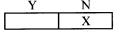
Instructions for Completing Checklist

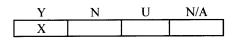
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

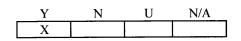
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Small panel (~26x26x6") wall mounted with 4 - 3/8" diam anchor bolts.

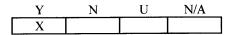
- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

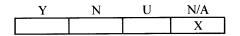


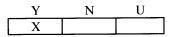


Sheet 458 of 461









Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 45	9 of 461
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. 2R42S0037 Equip. Class 2. Low Voltage Switchgear				
Equipment Description 125 V Bus ED-2-C				
Interaction Effects	V	N	TI	NT/A
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N	U	N/A
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
Fluorescent lights found to be twist-on type fixture but judged not a concern since they are out of the zone of influence.	2			
9. Do attached lines have adequate flexibility to avoid damage?	Y X	N	U	N/A
Attached piping is rigidly supported and attached conduits were found with adequate	L			
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y X	N	U	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y	N	- U	
Comments (Additional pages may be added as necessary)	······		_	
Comments (Additional pages may be added as necessary)				
detter Mehren 1				
Evaluated by: Eddie M. Guerra Date:	8/26/2	2012	-	
Entfl				
Brian A. Lucarelli Date:	8/26/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2R42S0037 Equip. Class 2. Low Voltage Switchgear

Equipment Description

125 V Bus ED-2-C

Other supporting or relevant documents and photos (if any):



File Name: 2-61-1-4-07.jpeg Description: Component Plate ID



File Name: 2-62-1-4-07.jpeg Description: General view of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2R42S0037 Equip. Class 2. Low Voltage Switchgear

Equipment Description

125 V Bus ED-2-C



File Name: 2-63-1-4-07.jpeg Description: View of top attached line